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Bruhat Bengaluru Mahanagara Palike

EXECUTIVE ENGINEER, RR NAGAR DIVISION

DETAILED PROJECT REPORT

Name of Work : Comprehensive Development of Roads & Drains in Prem Nagara, Chowdeshwari Nagar, Kottigepalya Village in ward no 73 Kottigepalya and Drilling of Borewells, Providing Water Supply in Kebbehalla, kengunte, Mallathahalli

Package - 11

Est Cost : 1100.00 Lakhs

CIVIL QUALITY CONSULTANTS & ENGINEERS
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An ISO 9001: 2015 Certified Company
NABL Accredited As Per ISO/IEC: 17025:2005 Laboratory
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Chapter-1

INTRODUCTION

1.1 GENERAL

Bangalore is the capital of Karnataka. It is located on the Deccan Plateau in the south- eastern part of Karnataka. Bangalore is India's third most populous city and fifth-most populous urban agglomeration. Bangalore is well known as a hub for India's Information Technology sector. It is among the top 10 preferred entrepreneurial locations in the world Bangalore is sometimes referred to as the "Silicon Valley of India" (or "IT capital of India") because of its role as the nation's leading information technology (IT) exporter. Indian technological organizations ISRO, Infosys, Wipro and HAL are headquartered in the city. A demographically diverse city, Bangalore is the second fastest-growing major metropolis in India.

1.2 GEOGRAPHY

Bangalore lies in the southeast of the South Indian state of Karnataka. It is in the heart of the Mysore Plateau (a region of the larger Precambrian Deccan) at an average elevation of 900 m (2,953 Ft.).It is located at 12.97°N 77.56°E and covers an area of 741 km2 (286 sq mi).The majority of the city of Bangalore lies in the Bangalore Urban district of Karnataka and the surrounding rural areas are a part of the Bangalore Rural district. The topology of Bangalore is flat except for a central ridge running NNE-SSW. The highest point is Vidyaranyapura Doddabettahalli, which is 962 m (3,156 ft) and lies on this ridge. No major rivers run through the city, though the Arkavathi and South Pennar cross paths at the Nandi Hills, 60 km (37 mi.) to the north. River Vrishabhavathi, a minor tributary of the Arkavathi, arises within the city at Basavanagudi and flows through the city. The rivers Arkavathi and Vrishabhavathi together carry much of Bangalore's sewage. A sewerage system, constructed in 1922, covers 215 km² (133 mi²) of the city and connects with five sewage treatment centers located in the periphery of Bangalor.

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1.3 CIVIC ADMINISTRATION

The **Bruhat Bengaluru Mahanagara Palike (BBMP)**, is the administrative body responsible for civic amenities and some infrastructural assets of the Greater Bangalore metropolitan area.[1] It is the fourth largest Municipal Corporation in India being responsible for a population of 6.8 million in an area of 741 km^2. Its boundaries have expanded more than 10 times over the last six decades. Its roles and responsibilities include the "orderly development of the city" — zoning and building regulations, health, hygiene, licensing, trade and education, as well as quality of life issues such as public open space, water bodies, parks and greenery. The BBMP represents the third level of government (the Central Government and State Government being the first two levels). BBMP is run by a city council composed of elected representatives, called "corporators", one from each of the wards (localities) of the city

1.3.1 HISTORY

The history of municipal governance of Bangalore dates back to 27 March 1862, when nine leading citizens of the old city formed a Municipal Board under the Improvement of Towns Act of 1850 with a similar Municipal Board was also formed in the newer Cantonment area.[3] The two boards were legalised in 1881, and functioned as two independent bodies called the Bangalore City Municipality and the Bangalore Civil and Military Station Municipality (Cantonment). The following year, half of the municipal councillors were permitted to be elected; property tax was introduced and greater powers given over police and local improvement.

After Indian independence, the two Municipal Boards were merged to form the Corporation of the City of Bangalore in 1949, under the Bangalore City Corporation Act. The corporation then consisted of 70 elected representatives and 50 electoral divisions and the office of Mayor introduced for the first time. The first elections were held in 1950.

The name of the council changed — first to Bangalore City Corporation (BCC) and then to Bangalore Mahanagara Palike

In 1991 the BMP expanded to include 87 wards in 1991 and 100 wards in 1995. The council also included 40 additional members drawn from the parliament and state legislature.

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In November 2006, the BMP Council was dissolved by the state government upon the completion of its five year term. In January 2007, the Karnataka Government issued a notification to merge 100 wards of the erstwhile Bangalore Mahanagara Palike with seven City Municipal Councils (CMC)s, one Town Municipal Council (TMC) and 111 villages around the city to form a single administrative area.[4] The process was completed by April 2007 and the body was renamed 'Bruhat Bangalore Mahanagara Palike'(Greater Bangalore Municipal Corporation).

1.3.2 ZONES

BBMP is divided into Eight zones, for the ease of administration each administered by a Zonal Commissioner:

1. Yelahanka Zone
2. Dasarahalli Zone
3. South Zone
4. Bommanahalli Zone
5. Mahadevapura Zone
6. Rajarajeswari Nagar Zone
7. West Zone
8. East Zone

Every zone has a Joint Commissioner, who is answerable to the BBMP commissioner. The decentralization hasn't been very effective in addressing the problems in administration. The end of 2013 saw discussions in various circles about dividing BBMP into more parts.

ROLES AND RESPONSIBILITIES

The Bruhat Bangalore Mahanagara Palike is the fourth largest Municipal Corporation in India, after the city corporations that administer Mumbai, Delhi and Chennai. The BBMP is responsible for infrastructural assets of the Greater Bangalore Metropolitan area, spread across 741 km^2, with a population of 6.8 million.

Its roles and responsibilities include the "orderly development of the city "zoning and building regulations, health, hygiene, licensing, trade and education, as well as quality of life issues such as lung spaces, water bodies, parks and greenery

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Work:- Comprehensive Development of Roads & Drains in Prem Nagara, Chowdeshwari ...tigepalya Village in ward no 73 Kottigepalya and Drilling of Borewells, Providing Water ...agar, ...Kebbehalla, kengunte, Mallathahalli and Surrounding areas in W No.129 under PACKAGE- ...upply, ...RRN-DIV-(11). ...022-2...

1.3.3 Project Background

Bruhat Bengaluru Mahanagara Palike (BBMP) is desirous of obtaining consultancy services for the preparation of Design Report for roads & Drains. BBMP has taken up a programme of Comprehensive Development of Roads & Drains in Prem Nagara, Chowdeshwari Nagar, Kottigepalya Village in ward no 73 Kottigepalya and Drilling of Borewells, Providing Water Supply in Kebbehalla, kengunte, Mallathahalli and Surrounding areas in W No.129 under PACKAGE- 2022-23 RRN-DIV-(11).The growth in vehicular traffic in this area and associated activities necessitates the widening of the project road to adequate width , since the ward and area located is ongoing development with UGD and Water line the development is most necessary with road and Drainage.

M/S Civil Quality Consultants & Engineers has been appointed as a consultant to perform the services. This Report deals with the approach, methodology, investigation details of project roads and the role of Consultants.

1.3.4 Loaction and Teerain Condition

The Project road lies under Rajarajeshwari Nagara Constituency Ward 160 Under RR Nagara Sub Division

Estimate Name:- Comprehensive Development of Roads & Drains in Prem Nagara, Chowdeshwari Nagar, Kottigepalya Village in ward no 73 Kottigepalya and Drilling of Borewells, Providing Water Supply in Kebbehalla, kengunte, Mallathahalli and Surrounding areas in W No.129 under PACKAGE- 2022-23 RRN-DIV-(11).

Project Cost Rs.1100.00 lakhs

Above Details Provided By Concern Assistant Engineer ,Assistant Executive Engineer & Executive Engineer BBMP RR Nagara Division.

OBJECTIVES

The Objectiveof the Consultancy services is to recommend an Optimal proposal for implementation which comprises of:

- Road Inventory as per IRC SP 19
- Flexible Pavement As per IRC 37-2018
- Rigid Pavement Design As per IRC SP 62-2014
- Prepare Bill of Quantities and Estimate based on Current Schedule Rate of PWD Bangalore Circle 2021-22

Note: Estimate and Design of Roads, Drain are Prepared as told By Concern AE, AEE and EE

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Chapter -2

INVESTIGATION & SURVEYS

2.1 GENERAL

A site investigation is the process of the collection of information, the appraisal of data, assessment Site investigation is carried out in order to enable a geotechnical and geo-environmental assessment of the road conditions and analysis of the engineering and environmental considerations related to the proposed development. Subsurface condition at a road may be relatively uniform or extremely variable and will largely determine the complexity of the problems to be faced in both design and construction. The subsurface investigation must therefore be of sufficient extent to provide enough information for a thorough understanding of the interaction of proposed work

The basic aim of field investigation and analysis is to identify technically and economically feasible solution to improvements / widening of the existing road, if any. These improvements include the formulation of suitable cross section through widening / improvements to the existing pavement drain system, footpath and facilities to the road users. The various engineering surveys/investigations of the road sections include

- Reconnaissance Survey
- Visual Topographical Survey
- Road Inventory Survey
- Pavement Condition Survey.
- Road signs, safety devices
-

2 .1.1 RECONNAISSANCE SURVEY

Reconnaissance Survey of the road, considered for improvements, has been carried out to identify the general condition of roads, drains, culverts and bridges for further surveys/investigations, to understand kind of establishments along the stretches of roads and to work out land acquisition scheme. Making use of the observations / data collected during reconnaissance survey, detailed schedule for surveys/ investigations required for the project has been finalized.

2.1.2 VISUAL TOPOGRAPHICAL SURVEYS

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A Topographic Survey is a survey that gathers data about the elevation of points and presents them as contour lines on a plot. The purpose of a topographic survey is to collect survey data about the natural and man-made features of the land, as well as its elevations. Topographic maps are used to show elevations and grading features for architects, engineers, and building contractors Topographic Survey has been conducted all along the corridor by physically measuring the Road Width, Footpath Width, Drain Width, and Alignment of Road and with the aid of Google Maps.

2.1.3 Road Inventory Survey

A detailed inventory and condition survey of road sections has been carried out by making use of well structured inventory data format. It was compiled in tabular form, developed using Excel computer software. Various data collected during the road inventory broadly include

- ✓ Type of terrain.
- ✓ Land use.
- ✓ Carriageway width.
- ✓ Type of surfacing.
- ✓ Shoulder, Median, Drain (Tertiary / Secondary), Footpath-type and width.
- ✓ Road Geometry.
- ✓ Road Furniture.
- ✓ Salient Buildings & Structures.
- ✓ Road Intersection(s) and their details.
- ✓ Land width (ROW).
- ✓ Culverts, bridges and other structures (type, size, span arrangement and location).
- ✓ General drainage conditions.

2.1.4 PAVEMENT CONDITION SURVEY

The visual survey is conducted and various details of the existing pavement are recorded.

- ✓ Pavement condition (extent of potholes, cracks, rutting, evenness, etc.)
- ✓ Shoulder condition (surface, potholes, height above or below carriageway, evenness)
- ✓ Side drain (type, condition)
- ✓ To assess the condition and strength data for developing improvement proposals and related designs

2.1.5 Road signs, safety devices

Road signs give information about the road conditions ahead, provide instructions to be followed at the major crossroads or junctions, warn or guide drivers, and ensure proper functioning of road traffic.

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Being unaware of road signs is akin to throwing caution to the wind. It can lead to loss of life and property The provision of Road Signs, Pavement Markings, Safety Barriers, Railings, Delineators, Chevron Markings, and Traffic Attenuators are made in the Detailed Estimate.

Chapter -3

DESIGN STANDARD & SPECIFICATION

Planning and design of roads & CD structures, pedestrian facilities and street furniture are essentially based on the IRC standards and MoRT&H specifications. Whenever, the codes / Standards are silent on some of the aspects, the same has been planned / designed based on Sound engineering practices. Design standards relevant to the project road along with the Broad list of design parameters and the relevant IRC codes/specifications have been detailed

Sl No	Design parameters	Reference Code
1	Geometric Designs Standard	As per IRC:86-2018
2.	Road Furniture ▪ Road Markings ▪ Road Signs	 As per IRC:35-1997 As per IRC:67-2012
3	Road Capacity	As per IRC:106-1990
4	Pavement Design	As per IRC:37-2018
5	Overlay Design	As per IRC:81-1997
6	CC Pavement(Rigid)	As per IRC: 62-2014
7	Road Drainage	As per IRC: SP: 50-2013
8	Culverts	As per relevant IRC codes and Morth

The project road section passes through plain terrain. Design standards (as appropriate) have been further elaborated under the following heads:

- Geometric Design
- Pavement Design
- Rigid Pavement Design
- Overlay Design
- Drainage
- Road Furniture and Appurtenances
- Bridges and CD Structures

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3.1 Design Standards Related to Geometric Design

Design standards related to road geometric along with the suggested design values/ standards and recommended values based on site conditions and data analysis are detailed in table

Sl No	Design parameters	Design values
1	Design Speed	Design Speed considered is 60 kmph
2.	Geometric Design Standards Carriage width	Two lane carriage way
3	Camber (Bi directional)	2.5% for paved carriage way
4	Super elevation	Limited to 4%
5	Footpath	Minimum width 1.8m
6	Kerb	Barrier/ semi barrier/ Mountable (Barrier type recommended)
7	Extra Widening at Curves	Nil for Radius above 300m
8	Gradient	Maximum Gradient-4.0 % (1 in 25) Minimum Gradient for Drainage - 0.5 % (desirable minimum) & 0.3 % (Absolute minimum).

3.2 Design Standards Related to Pavement Design

Design standards related to Pavement design are essentially based on the guidelinesgiven in IRC: 37 - 2018 "Tentative Guidelines for the Design of Flexible Pavements"The suggested design values / standards and recommended values based on site conditionsand data analysis are detailed in Table and are adapted in the design.

Sl No	Design parameters	Design values
1	Pavement design	RC: 37 2018 Tentative Guidelines for the Design of Flexible Pavements
2	Initial Traffic	In terms of CVPD, vehicles weighing more than 3 ton
3	Traffic growth rate	5%
4	Design Life	10 years

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5	Vehicle damage factor	1.5 to 4.5
6	Soil Characteristics	CBR Value

3.3 Design Standards Related to Rigid Pavement Design

Design standards related to Rigid Oavement are essentially based on the guidelines givenIn IRC: 62 – 2014"Guidelines for Strengthening of Rigid Pavements Using California Bearing Ratio", Penetration Resistance of soil and aggregate Properties

Sl No	Design parameters	Design values
1	Pavement design	IRC: 62- 2014 Tentative Guidelines for the Design of Rigid Pavements
2	Initial Traffic	In terms of CVPD, vehicles weighing more than 3 ton
3	Reliability	85%
4	Design Life	5 to 10 years
5	Equivalency factors	1.22
6	Soil Characteristics	CBR Value

3.4 Design Standards Related to Overlay Design

Design standards related to overlay design are essentially based on the guidelines givenIn IRC: 81 - 1997 "Guidelines for Strengthening of Flexible Road Pavements UsingBenkelman Beam Deflection Technique". The suggested design values / standards and Recommended values based on site conditions and data analysis are detailed in Table and are adapted in the design

Sl No	Design parameters	Design values
1	Overlay Design	RC: 81-1997 "Guidelines for Strengthening of Flexible Road Pavements Using Benkelman BeamDeflection Technique"
2	Design Life	10 years
3	Correction Factors	Temperature Correction Factor Correction for Seasonal Variation (inclusive of correction for moisture content, soil type and rainfall)

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4	Minimum Thickness	From structural considerations recommended minimum bituminous overlay thickness is 50 mm BDM(minimum) or 50mm BM (as required) +40mm BC
5	Wearing Course Material	Bituminous Concrete with Crumb Rubber Modified Bitumen

3.5 Design Standards Related to Road Drainage

Drainage of water from pavement surface is of paramount importance as far as preserving theAssets created by investing huge funds in addition to maintaining the structural soundness and Frictional efficiency of the road. Design standards related to road drainage are essentially based on the Deadlines given in IRC: SP: 42-1994 "Guidelines on Road Drainage" and in IRC: SP: 50 – 2013 delines on Urban Drainage". The suggested design values / standards are detailed in Table

Sl No	Design parameters	Design values
1	Camber	1.7-2 5 % (bi-directional) for carriageway (camber of 3% is adopted)
2	Longitudinal Gradient	Minimum 0 3-05% for satisfactory drainage
3	Drain Type	Cast in situ RCC box drain with Precast RCC cover slab RCC box culverts across cross roads.
4	For Existing Drains	Desilting and Rectification of Damaged Portion

3.6 Design Standards Related to Road Furniture and Appurtenances

Utility and importance of the road are greatly enhanced by installing road furniture and appurtenances at appropriate locations along the project road, which ensures improved road safety. Planning and design of road furniture and appurtenances are as per the guidelines stipulated in IRC. Detailing of each of these components has been done so as to integrate the same with the road improvement scheme. The suggested design values / standards are detailed in table

Sl No	Design parameters	Design values

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1	Road Markings	IRC:35-1997 "Code of Practice for Road Markings
2	Road Signs	IRC: 67-2012 "Code of Practice for Road Signs"

Detailed Brief Note of Work

Estimate Name:- Comprehensive Development of Roads & Drains in Prem Nagara, Chowdeshwari Nagar, Kottigepalya Village in ward no 73 Kottigepalya and Drilling of Borewells, Providing Water Supply in Kebbehalla, kengunte, Mallathahalli and Surrounding areas in W No.129 under PACKAGE- 2022-23 RRN-DIV-(11).

Constituency : Rajarajeshwari Nagara Constituency.

Zone : R.R.Nagar Zone.

Division: RR Nagara Division.

Sub Division: Laggere Sub Division.

Below Roads identified and Shown by concern Assistant Engineer ward no.73.

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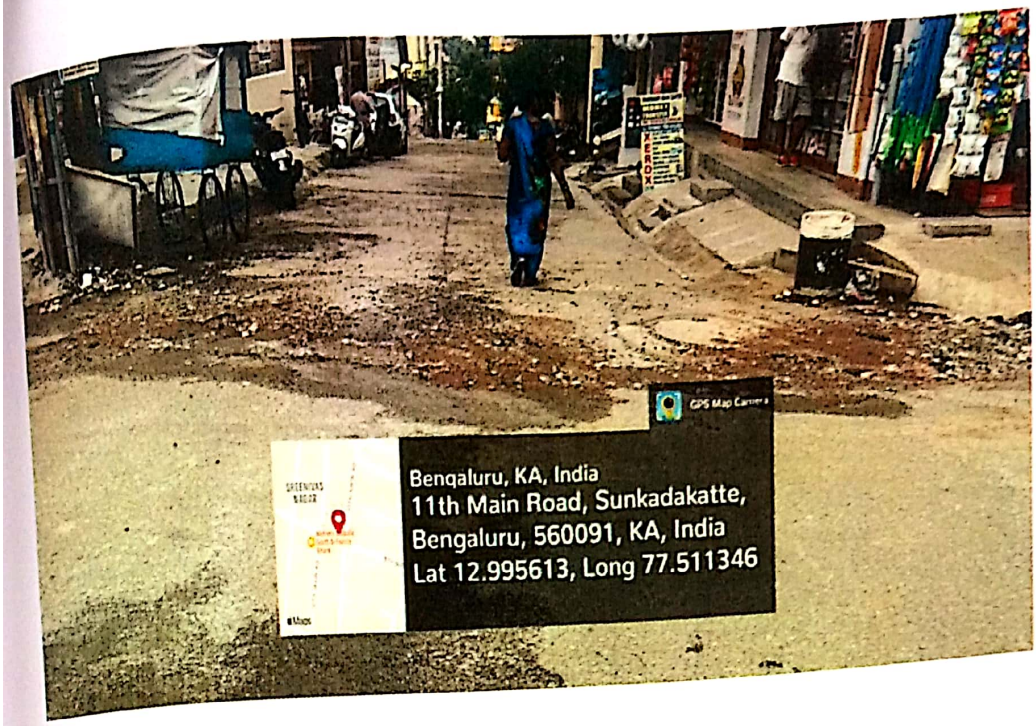

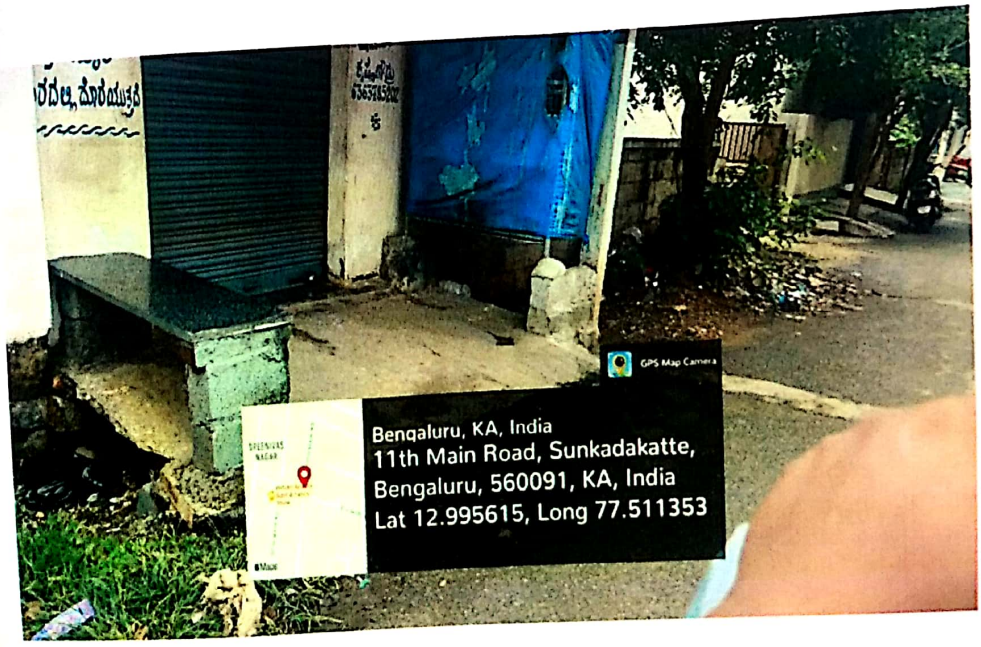

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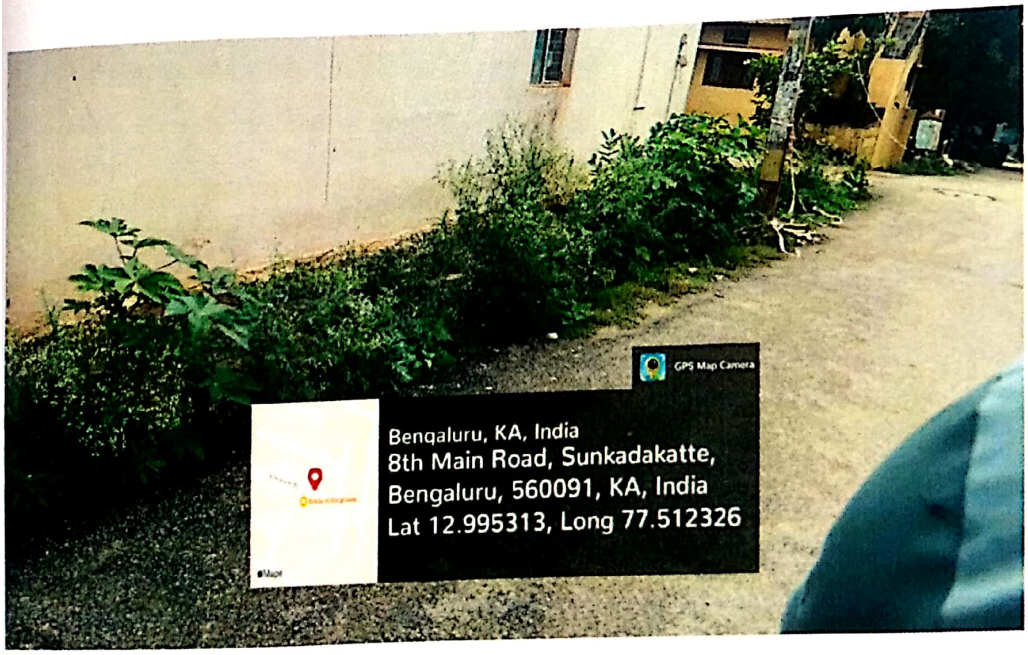

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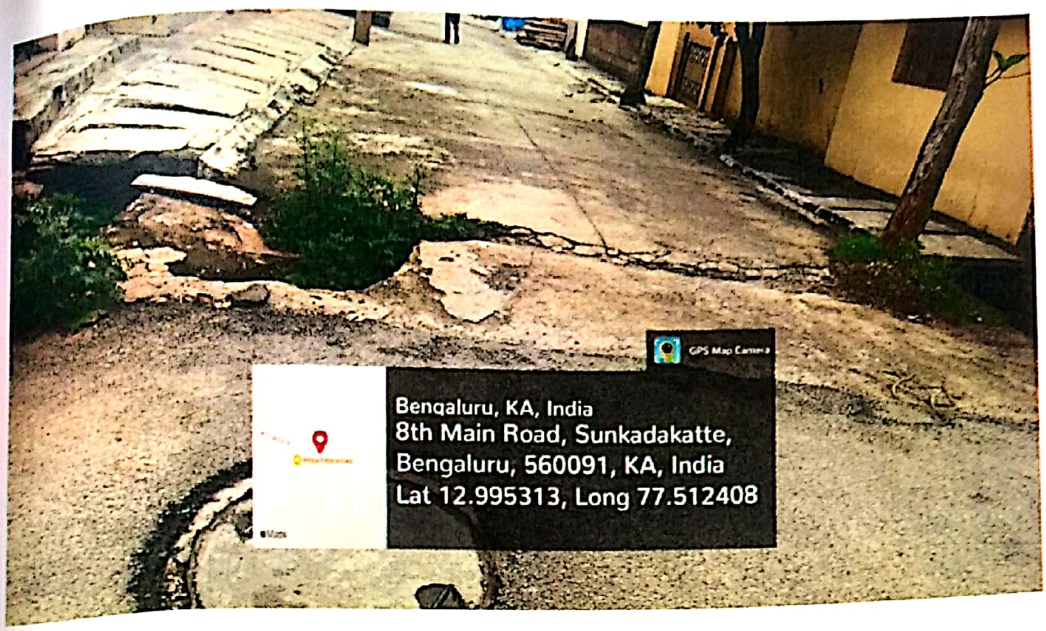

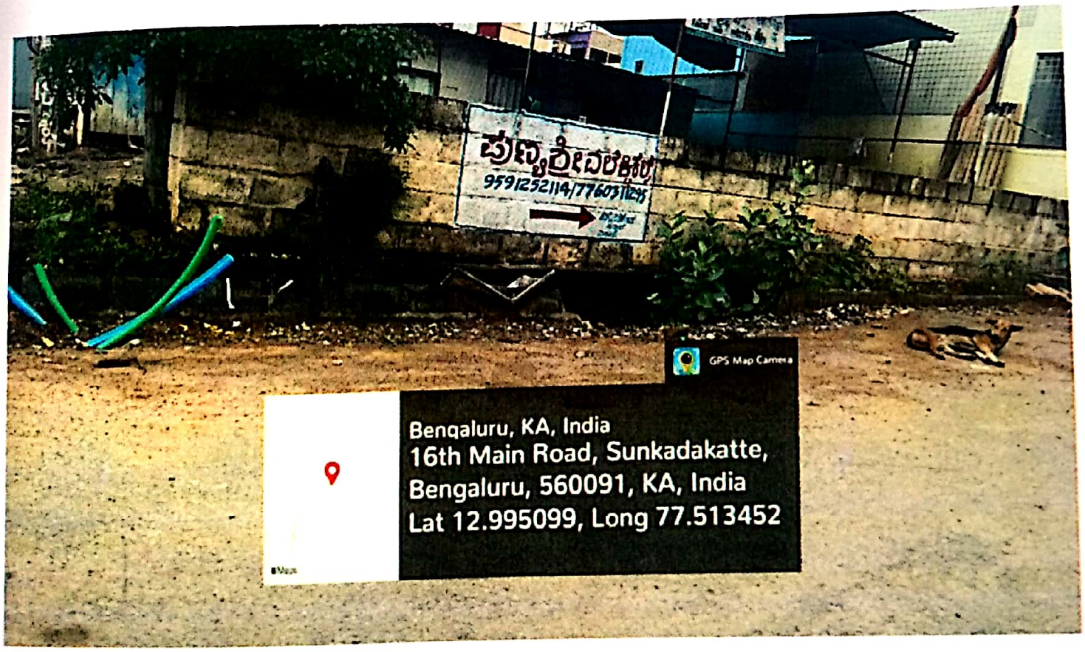

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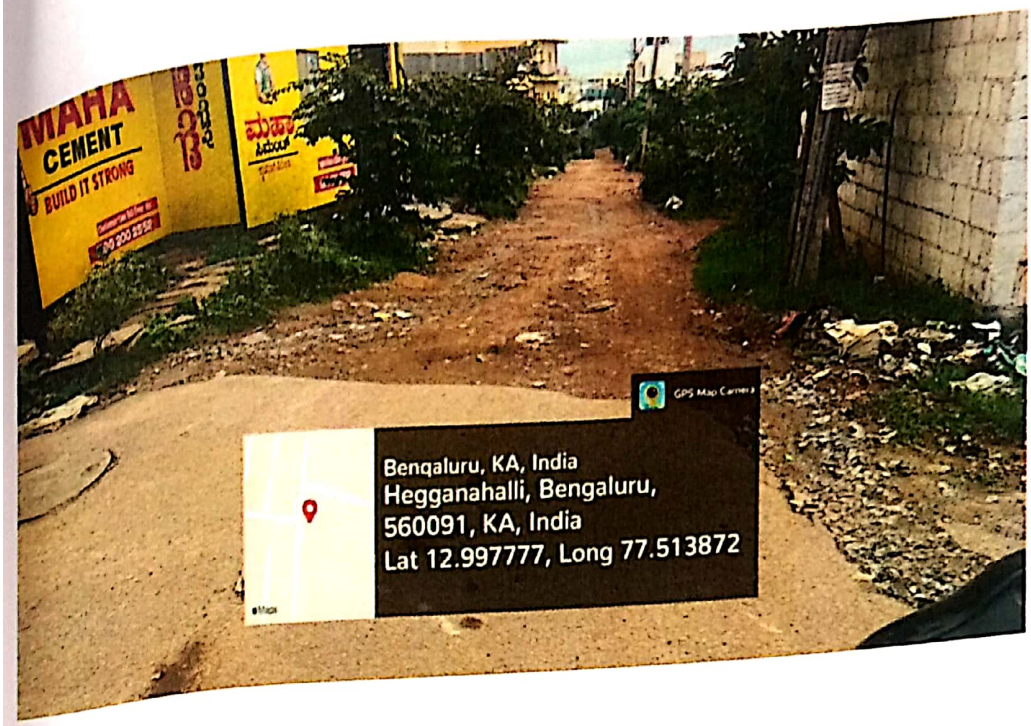

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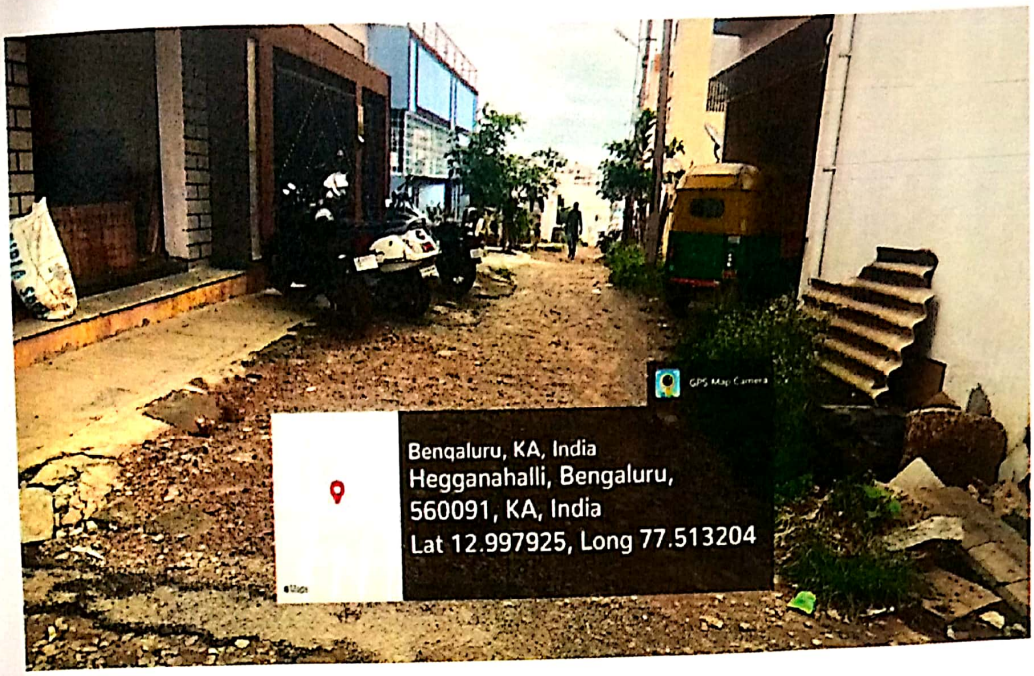

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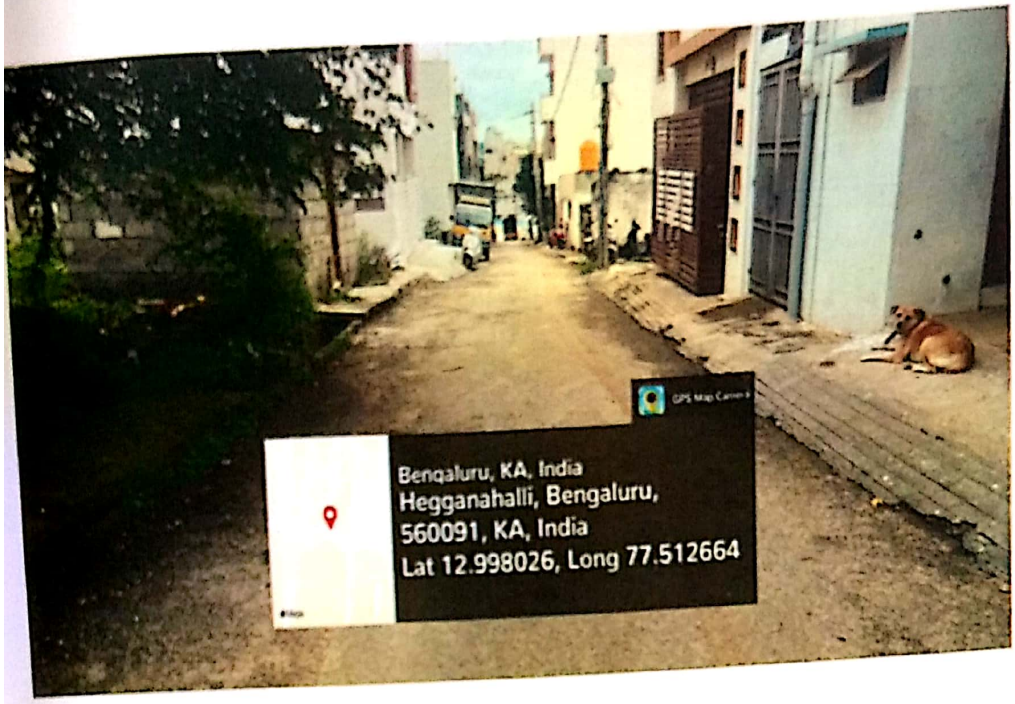

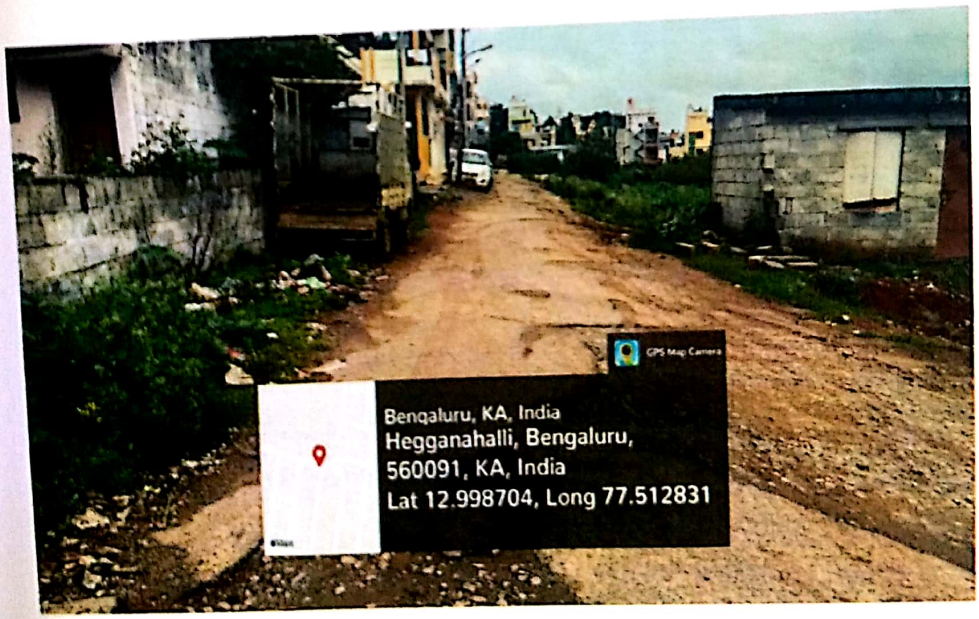

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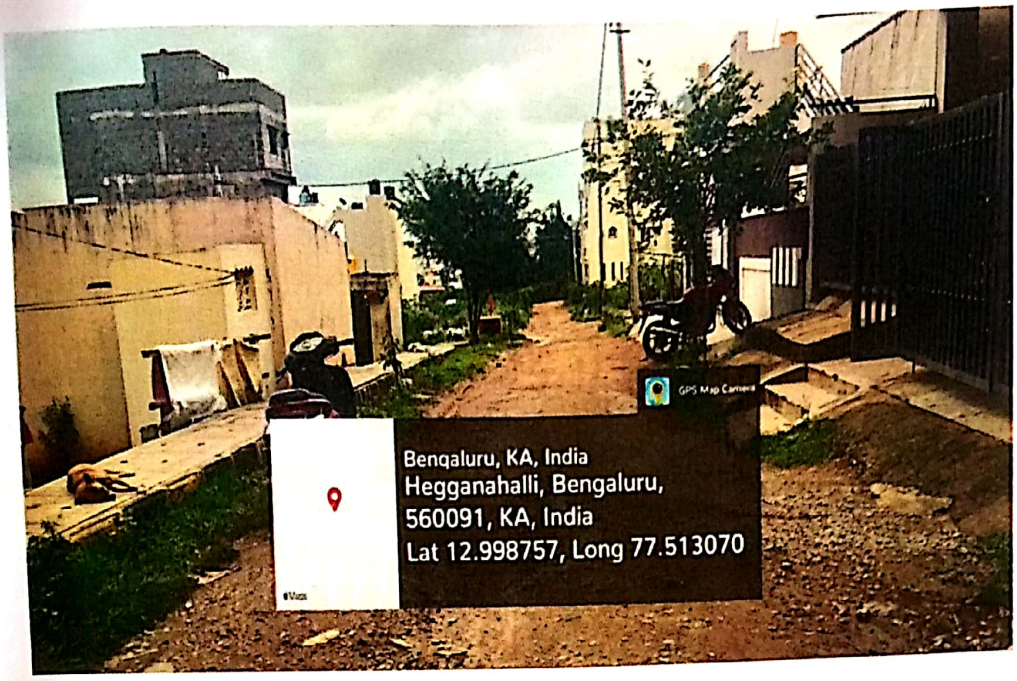

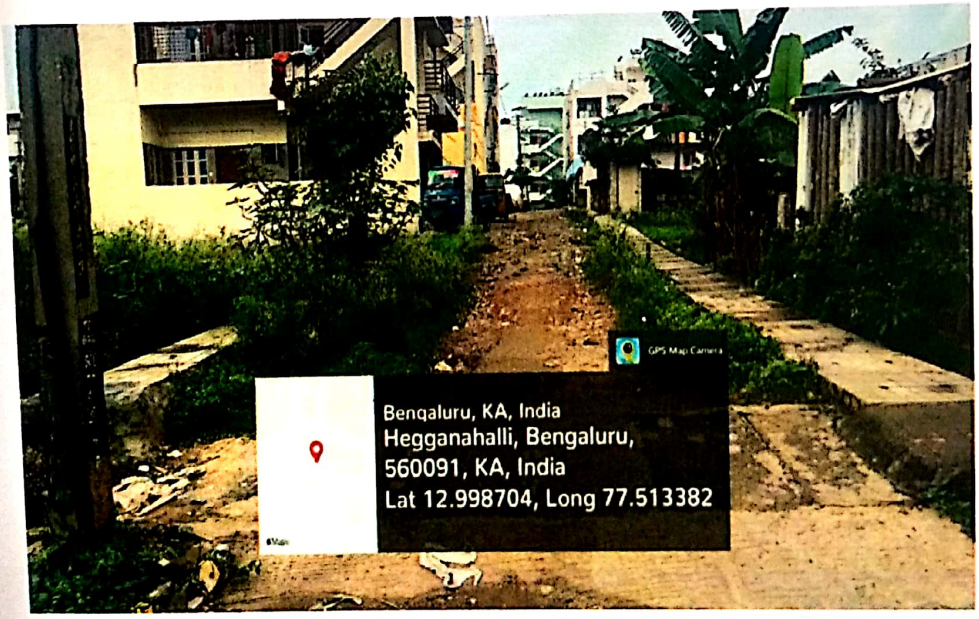

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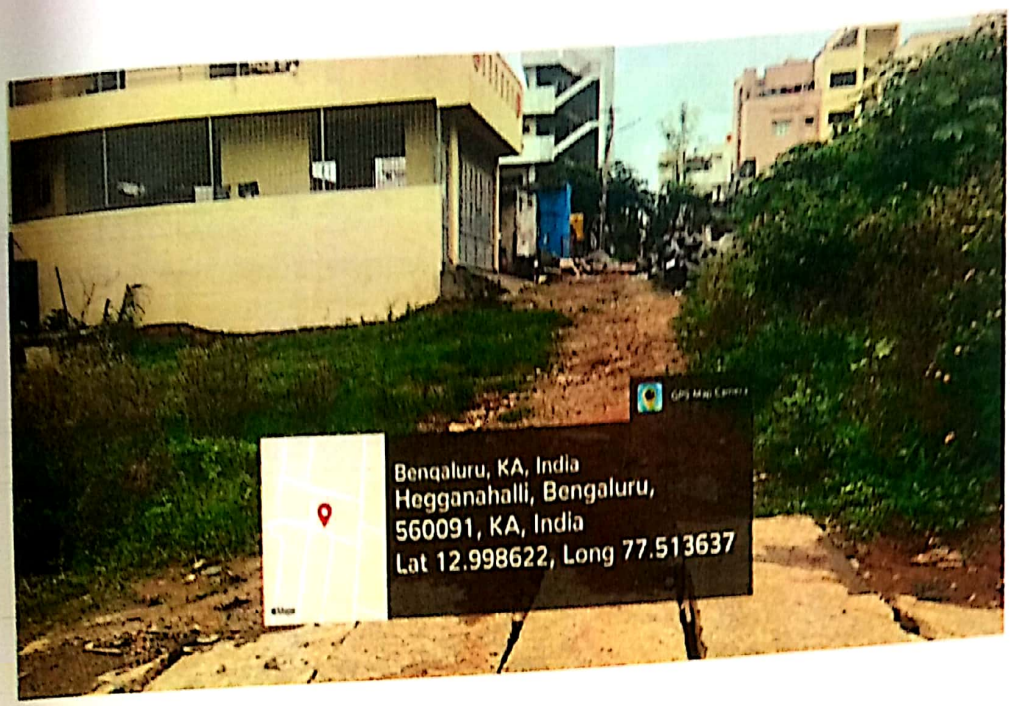

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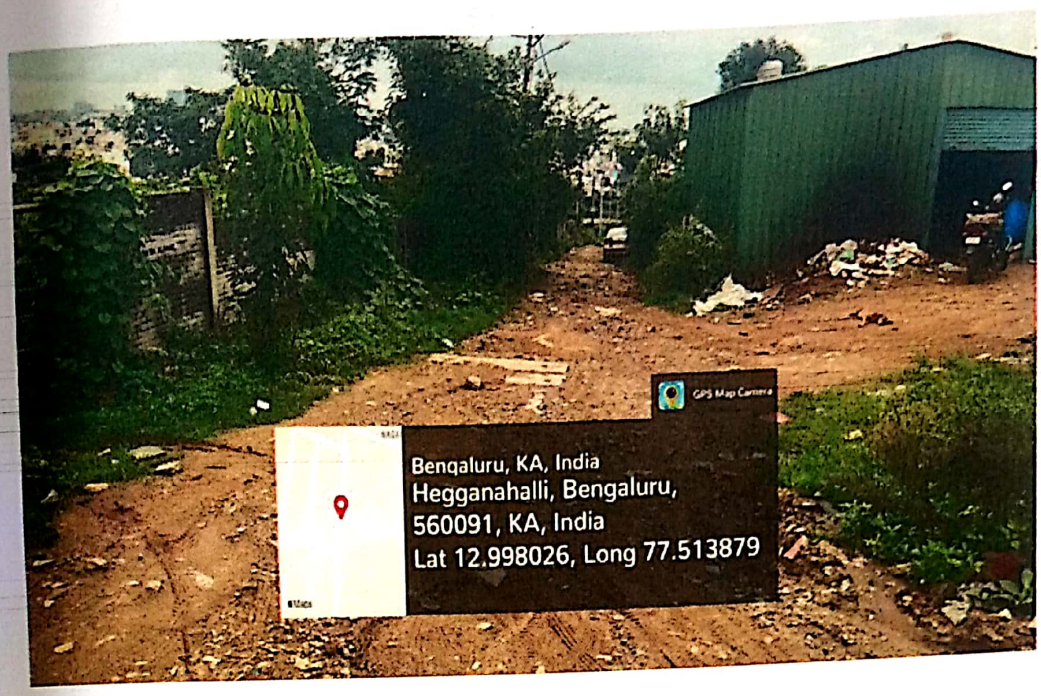

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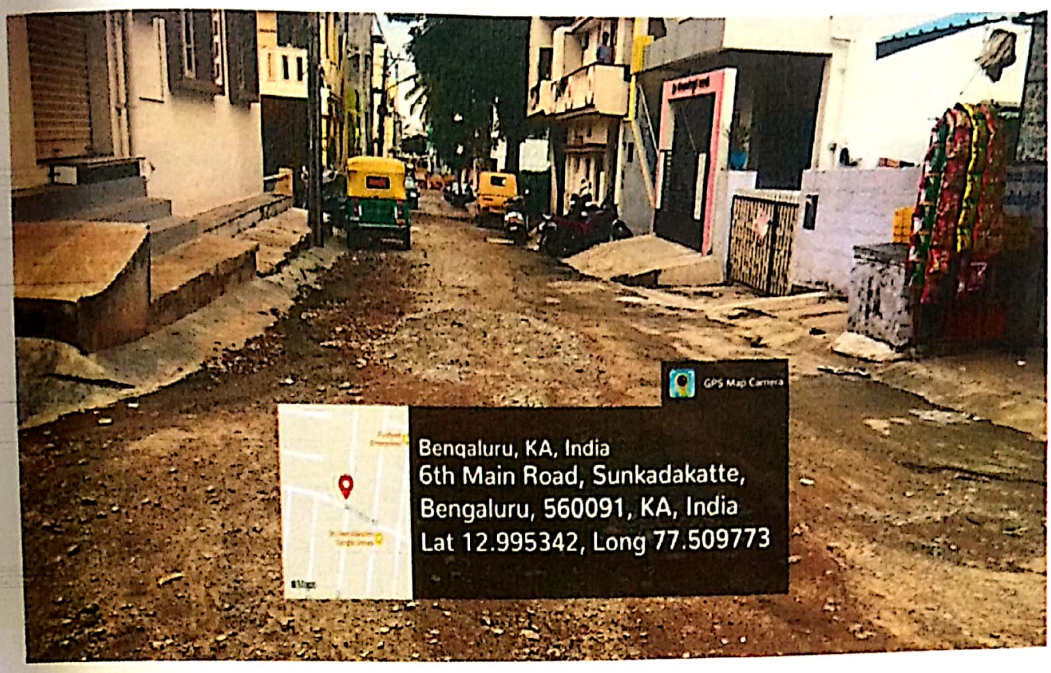

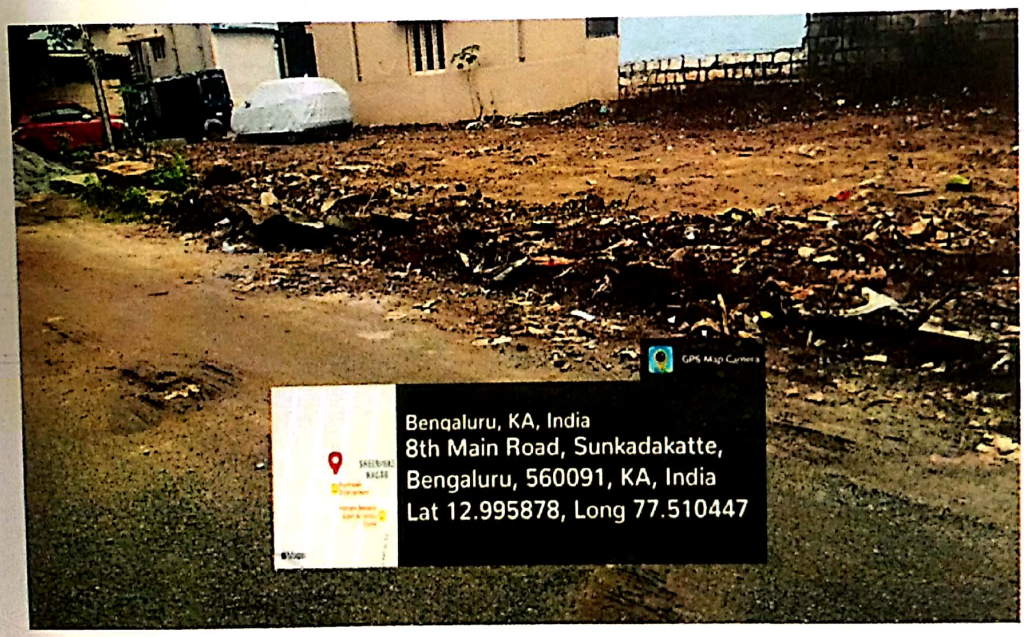

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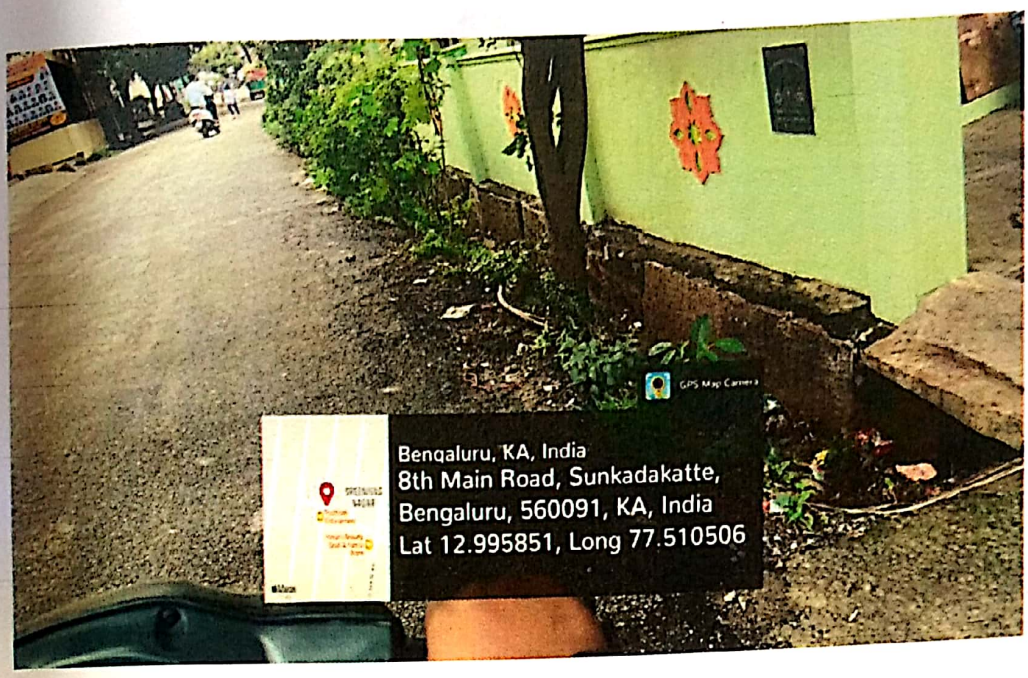

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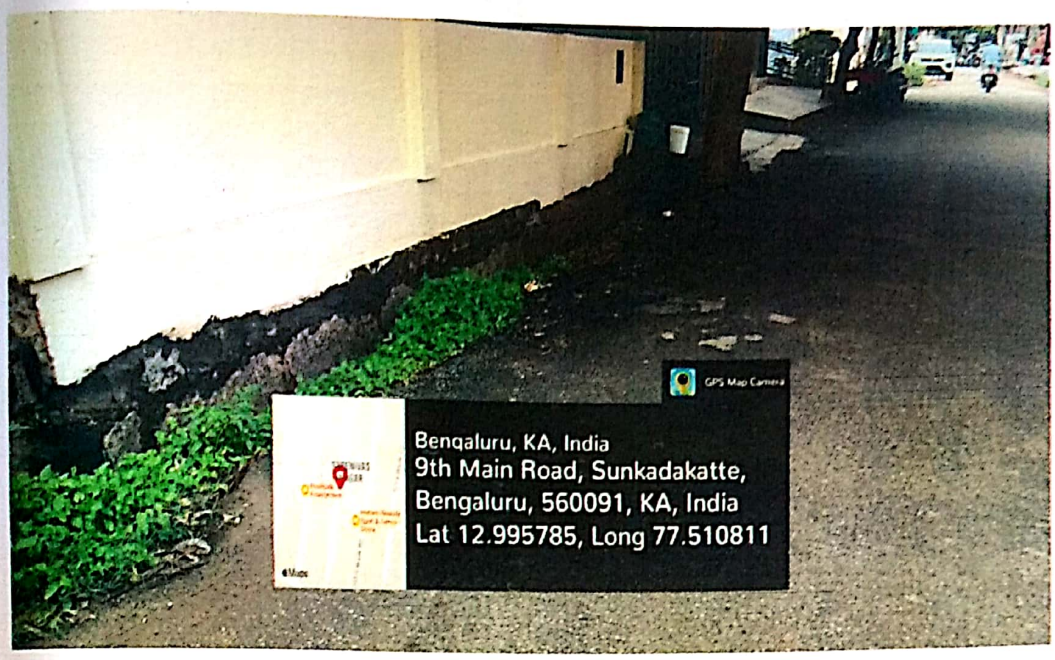

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CROSS SECTION

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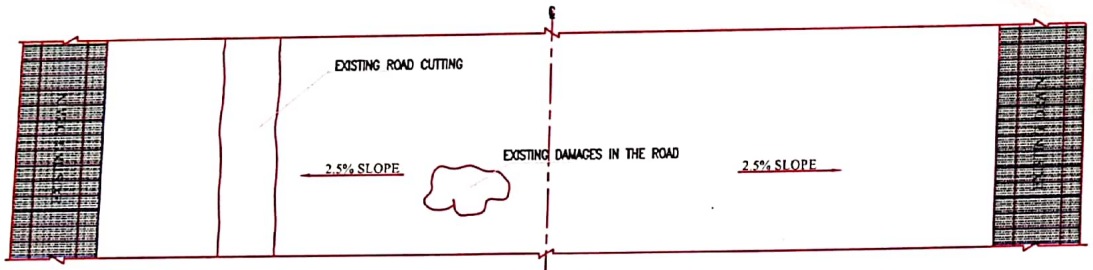
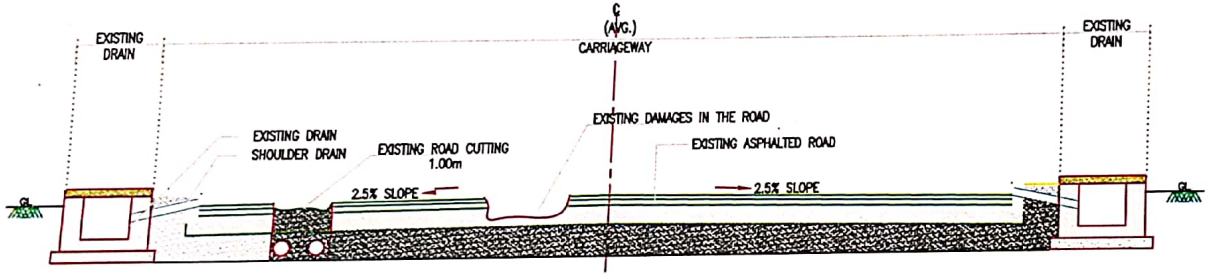
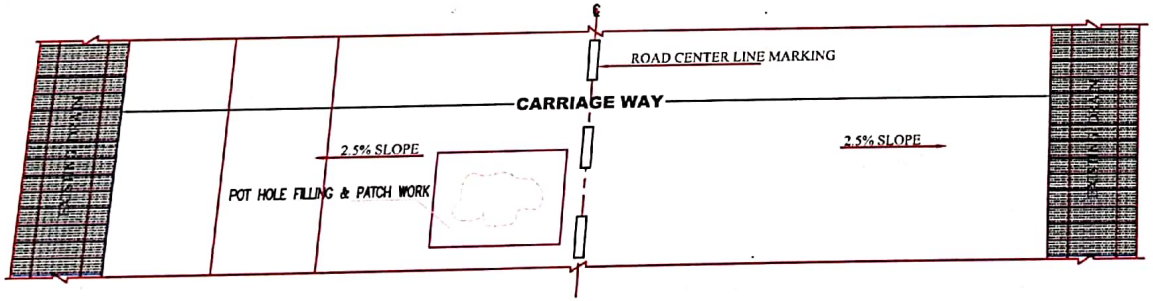


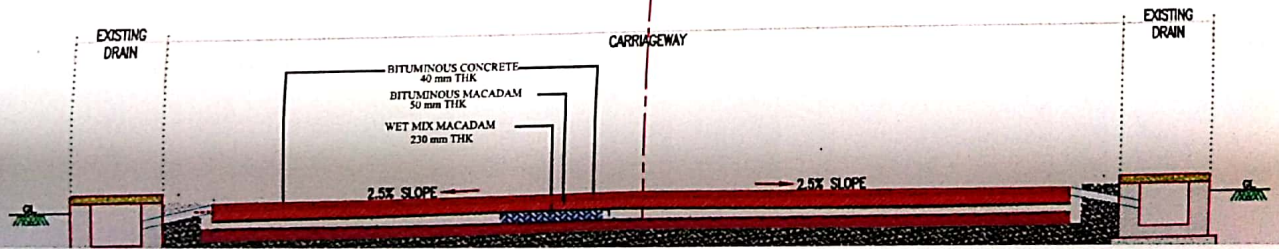
EXISTING PLAN



EXISTING TYPICAL CROSS SECTION



PLAN



For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

NOTES:

1. ALL DIMENSIONS AND LEVELS ARE IN METERS
2. FOLLOW FIGURE DIMENSION ONLY, DONOT MEASURE DIMENSIONS
3. LEVELS AND DISTANCE ARE IN METRES.

LEGEND:

REV NO.	DATE	REMARKS

CLIENT

BRUHAT BANGALORE MAHANAGARA PALIKE

TITLE

EXISTING & PROPOSED CROSS SECTION ROAD

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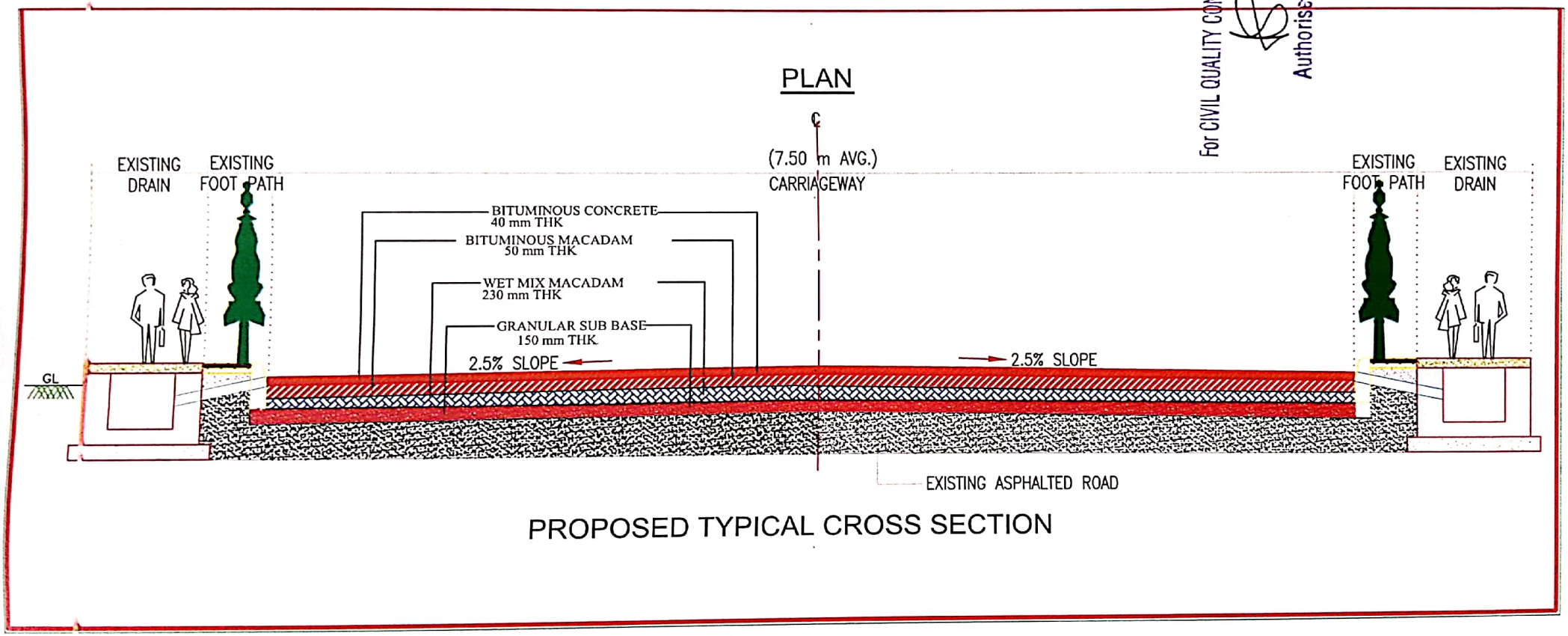
For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory



PROPOSED TYPICAL CROSS SECTION

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BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer - Road Infrastructure Yelahanka division

Rate Analysis for Removing and Resetting of Footpath Slab

Sl No	Description	Unit	Qty	Rate	Amount
	Removing and Resetting of Footpath Slab				
	Consider 10.00 Sqm				
	Labour				
A	Mazdoor (From Vol. Labour rates, unskilled no. 1, Pg No. A-52)	Day	1	486.22	486.22
B	Mazdoor light (Blacksmith Assistant) (From Vol, Labour rates, unskilled no. 2, Pg No. A-52)	Day	3	486.22	1458.66
			Total		1944.88
		Add Over Head Charges 10%			194.49
		Add Contractor's Profit 10% (10% of Total + Over Head Charges)			213.94
		Cost of Rs. 10.00 Sqm			2353.30
		Rate per Sqm			235.33
		Round Off			-0.33
		Net Rate Per Sqm			235.00

Note 1.The item rates are adoptd as per Schedule of Rate2020-21 Dated 18.03.2022

2.Rate ananlysis shall be revised acccording to periodical change in rate

Assistant Engineer
RI Yelahanka division

Asst Exec. Engineer
RI Yelahanka division

Executive Engineer
RI Yelahanka division

"Removing & Resetting of Footpath Slabs ಅಂಶಕ್ಕೆ ರೂ. 235.00 /sqm"

"ಸದರಿ ದರಗಳನ್ನು ಅಂದಾಜುಪಟ್ಟಿಯಲ್ಲಿ ಅಳವಡಿಸಿಕೊಳ್ಳಲು ಅನುಮೋದಿಸಿದೆ"

Superintending Engineer
Road Infrastructure
Bruhat Bengaluru Mahanagara Palike
Bengaluru - 560 002

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BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer - Road Infrastructure Yelahanka division

Rate Analysis for Removing and Resetting of Kerb Stones

Sl No.	Description	Unit	Qty	Rate	Amount
	Removing and Resetting of Kerb Stones				
	Consider 10.00 m				
	Labour				
A	Mazdoor (From Vol, Labour rates, unskilled no. 1, Pg No. A-52)	Day	1	486.22	486.22
B	Mazdoor light (Blacksmith Assistant) (From Vol, Labour rates, unskilled no. 2, Pg No. A-52)	Day	1	486.22	486.22
			Total		**972.44**
		Add Over Head Charges 10%			97.24
		Add Contractor's Profit 10% (10% of Total + Over Head Charges)			106.97
		Cost of Rs. 10.00 m			**1176.65**
		Rate per m			117.67
		Round Off			0.33
		Net Rate Per m			**118.00**

Note 1.The item rates are adoptd as per Schedule of Rate2020-21 Dated 18.03.2022

2. Rate ananlysis shall be revised acccording to periodical change in rate

Assistant Engineer
RI Yelahanka division

Asst Exec. Engineer
RI Yelahanka division

Executive Engineer
RI Yelahanka division

" Removing & Resetting of Kerb Stones - Rs. 118.00 /mts
ಅಂತೆಯನ್ನು ಅಂದಾಜು ಪಟ್ಟಿಯಲ್ಲಿ ಅಳವಡಿಸಿಕೊಳ್ಳಲು
ಅನುಮೋದಿಸಿದೆ "

Superintending Engineer
Road Infrastructure
Bruhat Bengaluru Mahanagara Palike
Bengaluru - 560 002

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BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer - Road Infrastructure Yelahanka division

Rate Analysis for Removing Covering Slab of Drain and stacking

Sl No.	Description	Unit	Qty	Rate	Amount
	Removing Covering Slab of Drain and stacking				
	Consider 10.00 Sqm				
	Labour				
A	Mazdoor (From Vol, Labour rates, unskilled no. 1, Pg No. A-52)	Day	1	486.22	486.22
B	Mazdoor light (Blacksmith Assistant) (From Vol, Labour rates, unskilled no. 2, Pg No. A-52)	Day	1	486.22	486.22
			Total		**972.44**
		Add Over Head Charges 10%			97.24
		Add Contractor's Profit 10% (10% of Total + Over Head Charges)			106.97
		Cost of Rs. 10.00 Sqm			**1176.65**
		Rate per Sqm			117.67
		Round Off			0.33
		Net Rate Per Sqm			**118.00**

Note 1.The item rates are adoptd as per Schedule of Rate2020-21 Dated 18.03.2022
2.Rate ananlysis shall be revised acccording to periodical change in rate

Assistant Engineer
RI Yelahanka division

Asst Exec. Engineer
RI Yelahanka division

Executive Engineer
RI Yelahanka division

"Removing Covering Slabs of Drain & stacking"
ಅಂಕಕ್ಕೆ ದ Rate analysis ಅಂತೆ ರೂ - 118.00/sqm
ದರಗಳನ್ನು ಅಂದಾಜು ಪಟ್ಟಿಯಲ್ಲಿ ಅಳವಡಿಸಲು
ಅನುಮೋದಿಸಿದೆ"

Superintending Engineer
Road Infrastructure
Bruhat Bengaluru Mahanagara Palike
Bengaluru - 560 002

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BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer - Road Infrastructure Yelahanka division

Rate Analysis for Milling the bituminous pavement surface upto a depth of 55 mm

Sl No.	Description	Unit	Qty	Rate	Amount
	Milling the bituminous pavement surface upto a depth of 55 mm using milling machine, to make a uniform surface without disturbing the base, cleaning the milled surface, including cost of all labour charges and hire charges of machineries etc complete., including stacking the milled material on the sides of road.				
	Consider 1500.00 Sqm				
	Machinary				
A	Milling Machine with 1 meter Drum Width per day of 8Hrs (Sl no 64, Page no A-46)	Hr	8	6851.00	54808.00
B	Tipper-14 m3 x 2 Nos (8*2=16 hrs) (Sl no 122, Page no A-48)	Hr	16	2019.00	32304.00
	Labour				
A	Literate labour (From Vol, Labour rates, Highly skilled no. 1, Pg No. A-49)	Day	1	526.22	526.22
B	Mazdoor (From Vol, Labour rates, unskilled no. 1, Pg No. A-52)	Day	5	486.22	2431.10
C	Mazdoor light (From Vol, Labour rates, unskilled no. 2, Pg No. A-52)	Day	3	486.22	1458.66
			Total		**91527.98**
		Add Over Head Charges 10%			9152.80
		Add Contractor's Profit 10% (10% of Total + Over Head Charges)			10068.08
		Cost of Rs. 1500.00 Sqm			**110748.86**
		Rate per 1Sqm			73.83
		Round Off			0.17
		Net Rate Per Sqm			**74.00**

Note 1.The item rates are adoptd as per Schedule of Rate2020-21 Dated 18.03.2022
2.Rate ananlysis shall be revised acccording to periodical change in rate

Assistant Engineer
RI Yelahanka division

Asst.Exec. Engineer
RI Yelahanka division

Executive Engineer
RI Yelahanka division

"Bituminous Pavement Surface upto a depth of 55 mm" ಅಂತಕ್ಕೆ ರೂ. Rs.741-Sqm"
ಸದರಿ ದರಗಳಿಗೆ ಅಂದಾಜು ಪಟ್ಟಿಯಲ್ಲಿ ಅನುಮೋದನೆ ಕೊಟ್ಟಿರುತ್ತಾ ಅನುಮೋದನೆ.

Superintending Engineer
Road Infrastructure
Bruhat Bengaluru Mahanagara Palike
Bengaluru - 560 002

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BRUHAT BANGALORE MAHANAGARA PALIKE

Executive Engineer - Road Infrastructure Yelahanka division

DATA RATE FOR 250mm PRECAST SLAB

Sl No	Description of Items	No	Length	Width	Depth	Quantity	Rate	Amount
			m	m	m			
1	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (V-1,P.No.17, I.No.2.4.2of PW, P&IWTD S.R 2021-22)							
	Basic rate 6,256.00							
	10% AW 625.60							
	Total 6,881.60							
	Cum							
		15	1.50	0.60	0.25	3.38		
						3.38	6,881.60	23,225.40
2	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications (V-III, I.NO 13.1 Page No 99, PWD SR 2021-22)							
	Basic rate/ Issue Rate 83,780.00							
	10% AW 8,378.00							
	Sub Total 92,158.00							
	Tonne	15.00		0.025		0.375		
	Per Slab = 25 kgs					0.375	92,158.00	34,559.25
3	Laying and fixing Precast slabs of drains and pointing in C.M (1:3)							
	Sqm							
		15	1.50	0.60		13.50		
						13.5	6.60	89.10
	Rate Analysis							
a.	R & R stone slab of drains		123.00					
b.	BS slab of drain and stacking		117.00					
	Arrived rate for fixing (a-b)		6.00					
	Add 10% AW		0.60					
	Total rate in Rs.		6.60					
4	Transportation and crane charges (2 hr a day)					2.00		
	Crane with grab 0.75 m3 capacity, Vol I, P A-44, Sl No. 20	Hr	2			2.00	797.00	1,594.00
						Total		59,467.75

Cost per Sqm = Total 59,467.75 / 15*1.5*0.6 13.50 = 4405.02 Say 4400

Note 1.The item rates are adoptd as per Schedule of Rate2020-21 Dated 18.03.2022
2.Rate ananlysis shall be revised acccording to periodical change in rate

Assistant Engineer
RI Yelahanka division

Asst Exec. Engineer
RI Yelahanka division

Executive Engineer
RI Yelahanka division

Superintending Engineer
Road Infrastructure
Bruhat Bengaluru Mahanagara Palike

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BRUHAT BANGALORE MAHANAGARA PALIKE

Excecutive Engineer RR Nagar Division

Detailed Estimate

oF work: Improvements of Roads & Drains in Kottigepalya Village and surrounding areas in Ward no 73, Kottigepalya

Estimate Cost 300.00 Lakhs

Code; / Description of item	Rate	Unit	Nos	Dimension L in m	Dimension B in m	Dimension D in m	Total Qty	Rate in Rs	Amount in Rs
h work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of ges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, tting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly sed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m uding cost of labour, tools & other appurtenaces required to complete the work.In all kinds of soils Depth upto 1.5 m.Item 1.4.1,Page No.A(5), Vol I CSR 21-22									
EARTHWORK	Cum								
NEW DRAIN									
57			2	121.00	1.00	1.00	242.00		
54			2	188.00	1.00	1.00	376.00		
55			2	80.00	1.00	1.00	160.00		
53			2	82.00	1.00	1.00	164.00		
47			2	76.00	1.00	1.00	152.00		
48			2	82.00	1.00	0.90	147.60		
							1241.60	363.56	451396.10
Basic Rate	186.00								
Loading & unLoading	118.00								
for lead for earth (1.28 Tonne / Cum) 16km	40.96								
Area Weightage @ 10%	18.60								
Total	363.56								
viding and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt hed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage ges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. e cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed se aggregates. CSR 2021-22 Vol-1 Page No.15 I.No.2.1.3									
IN CEMENT CONCRETE	cum								
DRAIN BED									
57			2	121.00	1.00	0.15	36.30		
54			2	188.00	1.00	0.15	56.40		
55			2	80.00	1.00	0.15	24.00		
53			2	82.00	1.00	0.15	24.60		
47			2	76.00	1.00	0.15	22.80		
48			2	82.00	1.00	0.15	24.60		
							188.70	6,327.20	1193943
Basic Rate	5752.00								
Area Weightage @ 10%	575.20								
	6,327.20								
viding and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure ks of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse regates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted ng needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, firming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other.appurtenances uired to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid arately).M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates.Item No.2.4.2,Page No.17, Vol I CSR 21-									
NEW DRAIN	Cum								
RAFT									
157			2	121.00	0.90	0.15	32.67		
154			2	188.00	0.90	0.15	50.76		
155			2	80.00	0.90	0.15	21.60		
153			2	82.00	0.90	0.15	22.14		
147			2	76.00	0.90	0.15	20.52		
148			2	82.00	0.90	0.15	22.14		

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Description of item	Rate	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
WALL									
7									
4			4	121.00	0.10	0.60	29.04		
5			4	188.00	0.10	0.60	45.12		
3			4	80.00	0.10	0.60	19.20		
7			4	82.00	0.10	0.60	19.68		
8			4	76.00	0.10	0.60	18.24		
			4	82.00	0.10	0.60	19.68		
Basic Rate	6,256.00						320.79	7225.68	2317926
Centering and Shuttering Charges 5%	312.80								
Area Weightage @ 10%	656.88								
Total	7225.68								

lying, Fitting and Placing TMT Fe 500 & above Reinforcement in Foundation / Substructure / Superstructure complete as

Drawing and Technical Specifications. Item No.9.3 ,Page No.71, Vol III SR 21-22.ISSUE RATE DATE(7-04-2022)

RCC drain	Tonne								
Total RCC Quantity =	kg								
For 1 CUM = 60	Kg						320.79		
	Kg						60.00		
	Tonne						19247.40		
Basic Rate	94295.00						19.25	103724.50	1996426.94
Area Weightage @ 10%	9,429.50								
Total	103724.50								

viding & laying precast drain cover slab of 100 mm thickness in CM 1:3 including cost of all materials, labour, curing,

sportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(0.90 x 0.60 x 0.10) (Approved

rate)

	sqm								
W0157			2	121.00	0.9		217.8		
W0154			2	188.00	0.9		338.4		
W0155			2	80.00	0.9		144		
W0153			2	82.00	0.9		147.6		
W0147			2	76.00	0.9		136.8		
W0148			2	82.00	0.9		147.6		
DATA RATE	2072.00						1132.20	2072.00	2345918.40
Total	2072.00								

Asphalt Road

rth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, utting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, sposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 including cost of labour, tools, usage of machinery & other appurtenances required to complete the work.(Page No.8, I.No. 1.12 Vol-1 CSR 2021-22). In all kinds of soils upto 300 mm depth

ew Asphalt Rd		Cum							
0157			1	121.00	5.00	0.25	151.25		
0154			1	188.00	5.50	0.25	258.50		
0155			1	80.00	4.60	0.25	92.00		
0153			1	82.00	4.50	0.25	92.25		
0147			1	76.00	4.90	0.25	93.10		
0148			1	101.00	5.50	0.25	138.88		
0360			1	170.00	6.50	0.25	276.25		
0453			1	81.00	6.80	0.25	137.70		
0441			1	104.00	6.50	0.25	169.00		
0437			1	140.00	6.20	0.25	217.00		
0468			1	52.00	5.00	0.25	65.00		
0378			1	102.00	5.00	0.25	127.50		
0385			1	82.00	4.50	0.25	92.25		

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Description of item	Rate	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
379			1	56.00	7.20	0.25	100.80		
381			1	61.00	7.00	0.25	106.75		
383			1	62.00	5.00	0.25	77.50		
389			1	50.00	5.00	0.25	62.50		
Basic rate	65.00						2258.23	161.10	363800.05
Add Lead for 10km	89.60								
Area Wieght age @ 10%	6.50								
Total Rate in Rs	161.10								
struction of Granular Sub-Base of required grading as per design mixing in a mechanical mix plant at OMC, carriage of mixed terial to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power er to achieve the desired density, complete as per clause 401. Granular Sub-BasePlant Mix Method. Materia.Item No.4.1(V),Page 19, Vol III SR-21-22									
w Asphalt Rd		Cum							
157			1	121.00	5.00	0.15	90.75		
154			1	188.00	5.50	0.15	155.10		
155			1	80.00	4.60	0.15	55.20		
153			1	82.00	4.50	0.15	55.35		
147			1	76.00	4.90	0.15	55.86		
148			1	101.00	5.50	0.15	83.33		
360			1	170.00	6.50	0.15	165.75		
453			1	81.00	6.80	0.15	82.62		
441			1	104.00	6.50	0.15	101.40		
437			1	140.00	6.20	0.15	130.20		
468			1	52.00	5.00	0.15	39.00		
378			1	102.00	5.00	0.15	76.50		
385			1	82.00	4.50	0.15	55.35		
379			1	56.00	7.20	0.15	60.48		
381			1	61.00	7.00	0.15	64.05		
383			1	62.00	5.00	0.15	46.50		
389			1	50.00	5.00	0.15	37.50		
							1354.94	2581.70	3498035.69
Basic rate	2347.00								
Area Wieght age @ 10%	234.70								
Total Rate in Rs	2581.70								
oviding, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the aterial with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with ver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired nsity. Wet Mix Macadam (Plant mix method) (Page No.24, I.No. 4.27 of Vol-3 SR 2021-22).									
		Cum							
ew Asphalt Rd									
0157			1	121.00	5.00	0.175	105.88		
0154			1	188.00	5.50	0.175	180.95		
0155			1	80.00	4.60	0.175	64.40		
0153			1	82.00	4.50	0.175	64.58		
0147			1	76.00	4.90	0.175	65.17		
0148			1	101.00	5.50	0.175	97.21		
0360			1	170.00	6.50	0.175	193.38		
0453			1	81.00	6.80	0.175	96.39		
0441			1	104.00	6.50	0.175	118.30		
0437			1	140.00	6.20	0.175	151.90		
0468			1	52.00	5.00	0.175	45.50		
0378			1	102.00	5.00	0.175	89.25		
0385			1	82.00	4.50	0.175	64.58		
0379			1	56.00	7.20	0.175	70.56		

Scanned with CamScanner

Description of item	Rate	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
81			1	61.00	7.00	0.175	74.73		
83			1	62.00	5.00	0.175	54.25		
89			1	50.00	5.00	0.175	43.75		
							1580.76	2633.40	4162766.80
Basic rate	2394.00								
Area Wieght age @ 10%	239.40								
Total Rate in Rs	2633.40								
iding and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means. (Page No.29, I.No. 5.1 of Vol-3 SR 2021-ssue Rate 07/07/2022									
		Sqm							
Asphalt Rd									
57			1	121.00	5.00		605.00		
54			1	188.00	5.50		1034.00		
55			1	80.00	4.60		368.00		
53			1	82.00	4.50		369.00		
47			1	76.00	4.90		372.40		
48			1	101.00	5.50		555.50		
60			1	170.00	6.50		1105.00		
53			1	81.00	6.80		550.80		
41			1	104.00	6.50		676.00		
37			1	140.00	6.20		868.00		
68			1	52.00	5.00		260.00		
78			1	102.00	5.00		510.00		
85			1	82.00	4.50		369.00		
79			1	56.00	7.20		403.20		
81			1	61.00	7.00		427.00		
83			1	62.00	5.00		310.00		
89			1	50.00	5.00		250.00		
							9032.90	46.20	417319.98
Basic rate	42.00								
Area Wieght age @ 10%	4.20								
Total Rate in Rs	46.20								
minous Macadam Grading - II for traffic <20 MSA Providing and laying Bituminous Macadam with 40/60 TPH capacity hot plant using crushed aggregates of specified grading premixed with bituminous binder VG-30 @ 3.4% by weight of mix, sported to site, laid over a previously prepared surface with mechanical paver finisher to the required grade, level and nment and rolled as per clauses 501.6 and 501.7 to achieve the desired compaction (Page No.31, I.No. 5.8 C of Vol-3 SR 2021-Issue Rate 07/07/2022									
		Cum							
Asphalt Rd									
157			1	121.00	5.00	0.05	30.25		
154			1	188.00	5.50	0.05	51.70		
155			1	80.00	4.60	0.05	18.40		
153			1	82.00	4.50	0.05	18.45		
147			1	76.00	4.90	0.05	18.62		
148			1	101.00	5.50	0.05	27.78		
360			1	170.00	6.50	0.05	55.25		
453			1	81.00	6.80	0.05	27.54		
441			1	104.00	6.50	0.05	33.80		
437			1	140.00	6.20	0.05	43.40		
468			1	52.00	5.00	0.05	13.00		
378			1	102.00	5.00	0.05	25.50		

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Description of item	Rate	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
5			1	82.00	4.50	0.05	18.45		
9			1	56.00	7.20	0.05	20.16		
1			1	61.00	7.00	0.05	21.35		
3			1	62.00	5.00	0.05	15.50		
9			1	50.00	5.00	0.05	12.50		
							451.65	8104.80	3660492.40
Basic rate	7368.00								
Area Wieght age @ 10%	736.80								
Total Rate in Rs	8104.80								
iding and applying tack coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.20 kg/m2 on repared bituminous surface cleaned with mechanical broom(Page No.29, I.No. 5.3 of Vol-3 SR 2021-22).									
		Sqm							
Asphalt Rd									
57			1	121.00	5.00		605.00		
54			1	188.00	5.50		1034.00		
55			1	80.00	4.60		368.00		
53			1	82.00	4.50		369.00		
47			1	76.00	4.90		372.40		
48			1	101.00	5.50		555.50		
60			1	170.00	6.50		1105.00		
53			1	81.00	6.80		550.80		
41			1	104.00	6.50		676.00		
37			1	140.00	6.20		868.00		
68			1	52.00	5.00		260.00		
78			1	102.00	5.00		510.00		
85			1	82.00	4.50		369.00		
79			1	56.00	7.20		403.20		
81			1	61.00	7.00		427.00		
83			1	62.00	5.00		310.00		
89			1	50.00	5.00		250.00		
							9032.90	13.20	119234.28
Basic rate	12.00								
Area Wieght age @ 10%	1.20								
Total Rate in Rs	13.20								
minous Concrete Grading II for traffic <20 MSA Providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix t using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 per cent of mix and filler, sporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling h smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specificationclause No. 507 plete in all respects(Page No 36, I.No.5.16 C of Vol-3 SR 2021-22).Issue Rate 07/07/2022										
		Sqm							
w Asphalt Rd									
157			1	121.00	5.00	0.04	24.20		
154			1	188.00	5.50	0.04	41.36		
155			1	80.00	4.60	0.04	14.72		
153			1	82.00	4.50	0.04	14.76		
147			1	76.00	4.90	0.04	14.90		
148			1	101.00	5.50	0.04	22.22		
360			1	170.00	6.50	0.04	44.20		
453			1	81.00	6.80	0.04	22.03		
441			1	104.00	6.50	0.04	27.04		
437			1	140.00	6.20	0.04	34.72		

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Description of item	Rate	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
			1	52.00	5.00	0.04	10.40		
8			1	102.00	5.00	0.04	20.40		
78			1	82.00	4.50	0.04	14.76		
35			1	56.00	7.20	0.04	16.13		
79			1	61.00	7.00	0.04	17.08		
81			1	62.00	5.00	0.04	12.40		
83			1	50.00	5.00	0.04	10.00		
89									
							361.32	11672.10	4217316.48
Basic rate	10611.00								
Area Wieght age @ 10%	1061.10								
Total Rate in Rs	11672.10								
Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous SurfaceProviding and									
g of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/m2 area, thickness of 2.5									
is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from streaks									
holes(Page No.57, I.No. 8.15 of Vol-3 SR 2021-22).									
d Marking		Sqm							
Asphalt Rd			2	121.00	0.10		24.20		
57			2	188.00	0.10		37.60		
54			2	80.00	0.10		16.00		
55			2	82.00	0.10		16.40		
53			2	76.00	0.10		15.20		
47			2	101.00	0.10		20.20		
48			2	170.00	0.10		34.00		
60			2	81.00	0.10		16.20		
53			2	104.00	0.10		20.80		
41			2	140.00	0.10		28.00		
37			2	52.00	0.10		10.40		
68			2	102.00	0.10		20.40		
78			2	82.00	0.10		16.40		
85			2	56.00	0.10		11.20		
79			2	61.00	0.10		12.20		
81			2	62.00	0.10		12.40		
83			2	50.00	0.10		10.00		
89									
							321.60	525.80	169097.28
Basic rate	478.00								
Area Wieght age @ 10%	47.80								
Total Rate in Rs	525.80								
l Construction Cost									24913672.92
t towards GST @ 18%									4484461.13
ailed Project Report 1%									300000.00
ject Management & Consultancy Charges 1%									300000.00
cllenous and other charges									1865.95
nd Total									30000000.00

rtificate:-

That the area comes with in the limits of BBMP, PWD.

That the rates are adopted based on the PWD SR of 2021-22 with Issue Rates issued on 07/04/2020

That the provisions made in the estimate are necessary and quite essential.

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BRUHAT BENGALURU MAHANAGARA PALIKE

Name of Work:-Improvements of Roads & Drains in Prem Nagara, Chowdeshwari Nagar and surrounding areas in Ward no 73, Kottigepalya

Job no:-						Est .Cost Rs.	300.00	Lakhs
Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
1	Removing and refixing stone slabs of drains and pointing in CM (1:3)								
		Sqm							
	For BS Slabs								
	W0092	LHS	1	270.00	1.35		364.50		
		RHS	1	261.00	1.35		352.35		
	W0094	RHS	1	148.00	1.35		199.80		
		LHS	1	148.00	1.35		199.80		
	W0090	RHS	1	250.00	1.35		337.50		
		LHS	1	245.00	1.35		330.75		
	W0105	RHS	1	337.00	1.35		454.95		
		LHS	1	347.70	1.35		469.40		
	W0107	RHS	1	405.00	1.35		546.75		
		LHS	1	410.00	1.35		553.50		
	W0085	RHS	1	173.00	1.35		233.55		
		LHS	1	224.00	1.35		302.40		
	Cross road from W0085	LHS	1	35.00	1.35		47.25		
	CANARA BANK BESIDE ROAD(W0136)	RHS	1	61.00	1.35		82.35		
		LHS	1	61.00	1.35		82.35		
	continue canara bank road	LHS	1	11.20	1.35		15.12		
	Cross road from W0107	RHS	1	38.20	1.35		51.57		
		LHS	1	35.90	1.35		48.47		
	Cross road from W0105	LHS	1	40.90	1.35		55.22		
	Cross Road		1	145.00	1.35		195.75		
							4923.32		
	For Covering BS Slabs								
	W0092	LHS	1	270.00	0.90		243.00		
		RHS	1	261.00	0.90		234.90		
	W0094	RHS	1	148.00	0.90		133.20		
		LHS	1	148.00	0.90		133.20		
	W0090	RHS	1	250.00	0.90		225.00		
		LHS	1	245.00	0.90		220.50		
	W0105	RHS	1	337.00	0.90		303.30		
		LHS	1	347.70	0.90		312.93		
	W0107	RHS	1	405.00	0.90		364.50		
		LHS	1	410.00	0.90		369.00		
	W0085	RHS	1	173.00	0.90		155.70		
		LHS	1	224.00	0.90		201.60		
	Cross road from W0085	LHS	1	35.00	0.90		31.50		
	CANARA BANK BESIDE ROAD(W0136)	RHS	1	61.00	0.90		54.90		
		LHS	1	61.00	0.90		54.90		
	continue canara bank road	LHS	1	11.20	0.90		10.08		
	Cross road from W0107	RHS	1	38.20	0.90		34.38		
		LHS	1	35.90	0.90		32.31		
	Cross road from W0105	LHS	1	40.90	0.90		36.81		
	Cross Road		1	145.00	0.90		130.50		
							3282.21		
	40% missing BS drain Slabs						1969.33		
	40% Missing covering Slabs						1312.88		
							4923.32	121.00	595721.12
	Data Rate	121.00							
		121.00							
2	Removing And resetting of kerb stones								

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	Job no:-					Est .Cost Rs.	300.00	Lakhs	
Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
		Mtr							
	W0092	LHS	1	230.00			230.00		
		RHS	1	235.00			235.00		
	W0094	RHS	1	148.00			148.00		
		LHS	1	148.00			148.00		
	w0090	LHS	1	230.00			230.00		
		LHS	1	235.00			235.00		
	W0105	RHS	1	337.00			337.00		
		LHS	1	347.70			347.70		
	W0107	RHS	1	404.05			404.05		
		LHS	1	407.00			407.00		
	W0085	RHS	1	173.00			173.00		
		LHS	1	224.00			224.00		
	Cross road from W0085	LHS	1	35.00			35.00		
	CANARA BANK BESIDE ROAD	RHS	1	61.00			61.00		
		LHS	1	61.00			61.00		
	Cross road from W0107	RHS	1	38.20			38.20		
		LHS	1	35.90			35.90		
	Cross road from W0105	LHS	1	40.90			40.90		
							3390.75		
	Missing Kerb 50%						1695.38		
							1695.38	118.00	200054.48
	Data Rate	118.00							
	Total	118.00							
3	Earth work excavation by manual means for drains,canals, waste weir draft, approach channels, key trench, foundation of Bridges and such similar works, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, excavated surface leveled and sides neatly dressed disposing off or leveling the Excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage & other appurtenances required to complete the work In ordinary/soft rock without blasting upto 1.5 m depth . . Page No. 6/ Item No. 1.5.1 / VOL-1 CSR 2021-22									
	Desilting	Cum							
	W0092	LHS	1	270.00	0.60	0.45	72.90		
		RHS	1	261.00	0.60	0.40	62.64		
	W0094	RHS	1	148.00	0.60	0.50	44.40		
		LHS	1	148.00	0.60	0.45	39.96		
	W0090	RHS	1	250.00	0.60	0.60	90.00		
		LHS	1	245.00	0.60	0.75	110.25		
	W0105	RHS	1	337.00	0.60	0.60	121.32		
		LHS	1	347.70	0.60	0.75	156.47		
	W0107	RHS	1	405.00	0.60	0.65	157.95		
		LHS	1	410.00	0.60	0.65	159.90		
	W0085	RHS	1	173.00	0.60	0.45	46.71		
		LHS	1	224.00	0.60	0.65	87.36		
	Cross road from W0085	LHS	1	35.00	0.60	0.40	8.40		
	CANARA BANK BESIDE ROAD(W0136)	RHS	1	61.00	0.60	0.40	14.64		
		LHS	1	61.00	0.60	0.40	14.64		
	continue canara bank road	LHS	1	22.20	0.60	0.40	5.33		
	Cross road from W0107	RHS	1	38.20	0.60	0.45	10.31		
		LHS	1	35.90	0.60	0.40	8.62		
	Cross road from W0105	LHS	1	40.90	0.60	0.40	9.82		
	Cross Road		1	145.00	0.60	0.50	43.50		
	NEW DRAIN								
	W0094		2	58.00	1.10	0.90	114.84		
	Cross road		2	34.20	1.10	0.90	67.72		
	New Culvert Earthwork								
			1	8.20	1.80	1.00	14.76		
			1	6.60	1.50	1.00	9.90		
			1	5.40	1.50	1.00	8.10		

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	Job no:-					Est .Cost Rs.	300.00	Lakhs
Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
							1480.43	410.86	608247.42
	Basic Rate	229.00							
	Loading & unLoading	118.00							
	Add for lead for earth (1.28 Tonne / Cum) 16km	40.96							
	Area Weightage @ 10%	22.90							
		410.86							
4	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Page No. 15/ Item No. 2.1.3/ VOL-1 PWD SR 2021-22								
	New Drain	Cum							
	W0094		2	58.00	1.10	0.15	19.14		
	Cross road		2	34.20	1.10	0.15	11.29		
							30.43	6327.20	192511.39
	Basic Rate	5,752.00							
	Area Weightage @ 10%	575.20							
	Total	6327.20							
5	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates Page No. 17/ Item No. 2.4.2/ VOL-1 CSR 2021-22								
		Cum							
	Drain Raft								
	W0094		2	58.00	0.90	0.15	15.66		
	Cross road		2	34.20	0.90	0.15	9.23		
	Drain Wall								
	W0094		4	58.00	0.15	0.60	20.88		
	Cross road		4	34.20	0.15	0.60	12.31		
							58.09	7225.68	419710.85
	Basic Rate	6256.00							
	form work 5%	312.80							
	Area Weightage @ 10%	656.88							
	Total	7225.68							
6	Providing Thermo-Mechanically Treated bars of grade Fe-500D or more Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position, binding and anchoring to adjacent members whereever necessary complete as per Design including cost of material, labour, usage charges complete as per specifications. (The laps and wastages shall not be measured separately)(Vol-II ,P.No-84, LNo.11.22, CSR 2021-22Issue Rate Dated on 07.01.2022								
	For RCC Drain	Ton							
	Total RCC Quantity =	Cum					58.09		
	For 1 CUM = 65	Kg					65.00		
		Kg					3775.59		
							3775.59	116.60	440233.79
	Basic Rate	106.00							
	Area Weightage @ 10%	10.60							
	Total	116.60							

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	Job no:-					Est .Cost Rs.	300.00	Lakhs
Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
7	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately)Material Requirement : Cement= 175 kg (3.50 bags): Metal: 0.89 m3 : Sand= 0.47 m3. Page No. 62/ Item No. 2.1.2/ VOL-1 CSR 2021-22								
		Cum							
	Culvert Bed		1	8.20	1.80	0.15	2.21		
			1	6.60	1.50	0.15	1.49		
			1	5.40	1.50	0.15	1.22		
							4.91	5900.40	28994.57
	Basic Rate	5,364.00							
	Area Weightage @ 10%	536.40							
	Total	5900.40							
8	Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand)(VOL-II,P.No-9, I.No.5.4-SRB-2021-22)								
	SSM Culvert	cum							
	Culvert Wall		2	8.20	0.60	0.80	7.87		
			2	6.60	0.45	0.80	4.75		
			2	5.40	0.45	0.80	3.89		
							16.51	5964.20	98480.87
	Basic Rate	5,422.00							
	Area Weightage @ 10%	542.20							
	Total	5964.20							
9	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x150x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications.)(VOL-II,P.No-17, I.No.6.33-SRB-2021-22)								
	Flagging Course	Sqm							
	Road side								
	W0092	LHS	1	250.00		0.20	50.00		
		RHS	1	250.00		0.40	100.00		
	W0094	RHS	1	148.00		0.40	59.20		
		LHS	1	148.00		0.40	59.20		
	W0090	RHS	1	240.00		0.20	48.00		
		LHS	1	235.00		0.20	47.00		
	W0105	RHS	1	337.00		0.20	67.40		
		LHS	1	347.70		0.20	69.54		
	W0107	RHS	1	405.00		0.20	81.00		
		LHS	1	410.00		0.20	82.00		
	W0085	RHS	1	173.00		0.20	34.60		
		LHS	1	224.00		0.20	44.80		
	Cross road from W0085	LHS	1	35.00		0.20	7.00		
	CANARA BANK BESIDE ROAD	RHS	1	61.00		0.20	12.20		
		LHS	1	61.00		0.20	12.20		
	Cross road from W0107	RHS	1	38.20		0.40	15.28		
		LHS	1	35.90		0.40	14.36		
	Cross road from W0105	LHS	1	40.90		0.20	8.18		
	Cross Road		1	145.00		0.20	29.00		
	OFF-Road side								
	W0092	LHS	1	250.00		0.20	50.00		
		RHS	1	250.00		0.20	50.00		
	W0094	RHS	1	148.00		0.20	29.60		
		LHS	1	148.00		0.20	29.60		
	W0090	RHS	1	240.00		0.20	48.00		
		LHS	1	235.00		0.20	47.00		

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	Job no:-					Est .Cost Rs.	300.00	Lakhs	
Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
	W0105	RHS	1	337.00		0.20	67.40		
		LHS	1	347.70		0.20	69.54		
	W0107	RHS	1	405.00		0.20	81.00		
		LHS	1	410.00		0.20	82.00		
	W0085	RHS	1	173.00		0.20	34.60		
		LHS	1	224.00		0.20	44.80		
	Cross road from W0085	LHS	1	35.00		0.20	7.00		
	CANARA BANK BESIDE ROAD	RHS	1	61.00		0.20	12.20		
		LHS	1	61.00		0.20	12.20		
	Cross road from W0107	RHS	1	38.20		0.20	7.64		
		LHS	1	35.90		0.20	7.18		
	Cross road from W0105	LHS	1	40.90		0.20	8.18		
	Cross Road		1	145.00		0.20	29.00		
							1557.90	1173.70	1828507.23
	Basic Rate	1067.00							
	Area Weightage @ 10%	106.70							
	Total	1173.70							
10	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10) Using 20 mm and down size graded crushed coarse aggregates. (Vol-I P.No-15 I.No-2.1.4 CSR-2021-22)								
	Flagging bed concrete	Sqm							
	Road side								
	W0092	LHS	1	250.00	0.15	0.075	2.81		
		RHS	1	250.00	0.15	0.075	2.81		
	W0094	RHS	1	148.00	0.15	0.075	1.67		
		LHS	1	148.00	0.15	0.075	1.67		
	W0090	RHS	1	240.00	0.15	0.075	2.70		
		LHS	1	235.00	0.15	0.075	2.64		
	W0105	RHS	1	337.00	0.15	0.075	3.79		
		LHS	1	347.70	0.15	0.075	3.91		
	W0107	RHS	1	405.00	0.15	0.075	4.56		
		LHS	1	410.00	0.15	0.075	4.61		
	W0085	RHS	1	173.00	0.15	0.075	1.95		
		LHS	1	224.00	0.15	0.075	2.52		
	Cross road from W0085	LHS	1	35.00	0.15	0.075	0.39		
	CANARA BANK BESIDE ROAD	RHS	1	61.00	0.15	0.075	0.69		
		LHS	1	61.00	0.15	0.075	0.69		
	Cross road from W0107	RHS	1	38.20	0.15	0.075	0.43		
		LHS	1	35.90	0.15	0.075	0.40		
	Cross road from W0105	LHS	1	40.90	0.15	0.075	0.46		
	Cross Road		1	145.00	0.15	0.20	4.35		
	OFF-Road side								
	W0092	LHS	1	250.00	0.15	0.075	2.81		
		RHS	1	250.00	0.15	0.075	2.81		
	W0094	RHS	1	148.00	0.15	0.075	1.67		
		LHS	1	148.00	0.15	0.075	1.67		
	W0090	RHS	1	240.00	0.15	0.075	2.70		
		LHS	1	235.00	0.15	0.075	2.64		
	W0105	RHS	1	337.00	0.15	0.075	3.79		
		LHS	1	347.70	0.15	0.075	3.91		
	W0107	RHS	1	405.00	0.15	0.075	4.56		
		LHS	1	410.00	0.15	0.075	4.61		
	W0085	RHS	1	173.00	0.15	0.075	1.95		
		LHS	1	224.00	0.15	0.075	2.52		
	Cross road from W0085	LHS	1	35.00	0.15	0.075	0.39		
	CANARA BANK BESIDE ROAD	RHS	1	61.00	0.15	0.075	0.69		

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	Job no:-					Est .Cost Rs.	300.00	Lakhs
Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
		LHS	1	61.00	0.15	0.075	0.69		
	Cross road from W0107	RHS	1	38.20	0.15	0.075	0.43		
		LHS	1	35.90	0.15	0.075	0.40		
	Cross road from W0105	LHS	1	40.90	0.15	0.075	0.46		
	Cross Road		1	145.00	0.15	0.075	1.63		
	Kerb bed concrete	Sqm	1	3390.75	0.10	0.075	25.4		
							108.81	6518.60	709257.28
	Basic Rate	5,926.00							
	Area Weightage @ 10%	592.60							
	Total	6518.60							
11	21.10-Providing ruled pointing to cursed stone masonry with lime mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost all materials, labour, usage charges of machinery, curing complete as pre specification.(VOL-II,P.No-190, I.No.21.10-SRB-2021-22)								
		Sqm							
	Culvert Wall								
			2	8.20		0.80	13.12		
			2	6.60		0.80	10.56		
			2	5.40		0.80	8.64		
							32.32	261.80	8461.38
	Basic Rate	238.00							
	Area Weightage @ 10%	23.80							
	Total	261.80							
12	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately Mix 1:3:6 (M10) Using 20 mm nominal size graded crushed coarse aggregates)(P-15/Item No-2.1.4) PWD SR 2021-22								
	Copping Concrete	Cum							
	W0092	LHS	2	250.00	0.15	0.075	5.63		
		RHS	2	250.00	0.15	0.075	5.63		
	W0094	RHS	2	148.00	0.15	0.075	3.33		
		LHS	2	148.00	0.15	0.075	3.33		
	W0090	LHS	2	240.00	0.15	0.075	5.40		
		LHS	2	235.00	0.15	0.075	5.29		
	W0105	RHS	2	337.00	0.15	0.075	7.58		
		LHS	2	347.70	0.15	0.075	7.82		
	W0107	RHS	2	405.00	0.15	0.075	9.11		
		LHS	2	410.00	0.15	0.075	9.23		
	W0085	RHS	2	173.00	0.15	0.075	3.89		
		LHS	2	224.00	0.15	0.075	5.04		
	Cross road from W0085	LHS	2	35.00	0.15	0.075	0.79		
	CANARA BANK BESIDE ROAD	RHS	2	61.00	0.15	0.075	1.37		
		LHS	2	61.00	0.15	0.075	1.37		
	Cross road from W0107	RHS	2	38.20	0.15	0.075	0.86		
		LHS	2	35.90	0.15	0.075	0.81		
	Cross road from W0105	LHS	2	40.90	0.15	0.075	0.92		
	Cross Road		2	145.00	0.15	0.075	3.26		
	Culvert Coping								
			2	8.20	0.60	0.075	0.74		
			2	6.60	0.45	0.075	0.45		
			2	5.40	0.45	0.075	0.36		

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	Job no:-						Est .Cost Rs.	300.00	Lakhs
Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
							82.20	6281.56	516367.79
	Basic Rate	5926.00							
	Area Weightage @ 10%	355.56							
	Total	6281.56							
13	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete.- do - 7.5 cms thick (P-27/5.31.1) PWD SR 2018-19								
		Sqm					1969.33		
	For BS Slabs								
							1969.33	742.00	1461239.89
	Basic Rate	700.00							
	Area Weightage @ 6%	42.00							
	Total	742.00							
14	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete.- do - 10 cms thick (P-27/5.31.2) PWD SR 2018-19								
		Sqm					1312.88		
	40% Missing covering Slabs								
							1312.88	837.00	1098883.91
	Basic Rate	837.00							
	Total	837.00							
15	KSRB 5-8.1 ; Providing one line dressing to granite stone slab / granite stone masonry as per specifications. KBS 5.1.13								
		Sqm					1312.88		
	New Slab Qty								
							1312.88	242.00	317717.93
	Data Rate	242.00							
	Total	242.00							
16	Machine Cutting to granite stone slabs edge all four sides to get plain even surface. (Approved Data rate)								
		m					7293.00		
				2431.00	3.00		7293.00	390.00	2844270.00
	Data Rate	390.00							
	Total	390.00							
17	Providing & laying precast drain cover slab of 100 mm thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(0.90 x 0.60 x 0.10) (Approved Data rate)								
		Sqm							
	NEW DRAIN		2.00	58.00	0.90		104.40		
	W0094		2.00	34.20	0.90		61.56		
	Cross road		1	9.20	0.90		8.28		
	continue canara bank road		1	29.00	0.90		26.10		
	Cross road from W0107	RHS	1	11.40	0.90		10.26		
		LHS	1						
							210.60	2072.00	436363.20
	Data Rate	2072.00							
	Total	2072.00							
18	Providing & laying precast drain cover slab of 250 mm thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(1.2 x 0.60 x 0.25) (Approved Data rate)								
	SSM Culvert	sqm							
	Culvert		1	8.20	1.80		14.76		
			1	6.60	1.50		9.90		
			1	5.40	1.50		8.10		

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	Job no:-					Est .Cost Rs.	300.00	Lakhs
Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
							32.76	5037.00	165012.12
	Basic rate	5037.00							
	Total	5037.00							
19	Providing and fixing pre cast solid concrete kerb stones of size 450x150x500 mm made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting ete., complete.Page No. 27/ Item No. 5.29.2/ PWD SR 2018-19								
		No's							
	Missing Kerb 50%						1695.38		
	W0094		2	58			116.00		
	Cross road		2	34.2			68.40		
	W0105	RHS	1	90.00			90.00		
		LHS	1	60.40			60.40		
	W0107	RHS	1	90.00			90.00		
		LHS	1	115.00			115.00		
	W0085	RHS	1.00	55.00			55.00		
		LHS	1.00	60.00			60.00		
							2350.18		
	No Of Kerb Legth/.45						5223	507.00	2647866.05
	Data Rate	507.00							
	Total	507.00							
20	**Painting Two Coats on New Concrete Surfaces** Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces MORTH Specification No.803 Page No. 56/ Item No.8.10/ Vol-3 R&B SR 2021-22								
		Sqm							
	R& R Qty		1	1695.38		0.40	678.15		
	New Kerb Qty		1	2350.18		0.40	940.07		
							1618.22	93.50	151303.72
	Basic Rate	85.00							
	Area Weightage @ 10%	8.50							
	Total	93.50							
21	Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work. In Ordinary/Soft rock upto 300 mm depth. (Vol-I P.No-8 I.No-1.13 CSR 2021-22) 2nd Corrigenda 06.07.2022								
		cum							
	Cross road-1		1	377.00	6.00	0.15	339.30		
	Cross road-2		1	250.00	6.00	0.15	225.00		
							564.30	339.06	191331.56
	Basic Rate	271.00							
	Add for lead for earth (1.28 Tonne / Cum) for 16km	40.96							
	Area Weightage @ 10%	27.10							
		339.06							
22	Loosening, leveling and Compacting original ground supporting embankment to facilitate placement of first layer of embankment, scarified to a depth of 150 mm, mixed with water at OMC and then compacted by rolling so as to achieve minimum dry density as given in Table 300-2 for embankment construction complete as per specifications. MORTH Specification No. 305.3.4(P.No.14, I.No. 3.7 of Vol-3 PWD SR 2021-22)								
		Sqm							
	Cross road-1		1	377.00	6.00		2262.00		
	Cross road-2		1	250.00	6.00		1500.00		

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	Job no:-					Est .Cost Rs.	300.00	Lakhs
Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
							3762.00	95.70	360023.40
	Basic Rate	87.00							
	Area Weightage @ 10%	8.70							
		95.70							
23	Construction of Dry lean cement concrete sub-base over a prepared sub grade with coarse and fine aggregates confirming to IS 383:2016 the size of coarse aggregates not exceeding 25mm replacing cement by fly ash to the extent of 20 percent, aggregate cement ratio not to exceed 15:1 aggregates gradation after blending to be as per table 600-1, cement content not to be less than 129 kg/m3, optimum moisture content to be determined during trial length construction , concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 t vibratory roller, finishing and curing. (P.No.43,44, I.No. 6.4 of Vol-3 PWD SR 2021-22)								
	Dry Lean Cement Concrete	Cum							
	Cross road-1		1	377.00	6.00	0.15	339.30		
	Cross road		1	250.00	6.00	0.15	225.00		
							564.30	4615.60	2604583.08
	Basic Rate	4196.00							
	Area Weightage @ 10%	419.60							
	Total	4615.60							
24	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 Its conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, soparation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications do- with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cumaggregate cement ratio not to exceed 15:1 aggregates gradation after blending to be as per table 600-								
		Cum							
	Cross road-1		1	377.00	6.00	0.15	339.30		
	Cross road		1	250.00	6.00	0.15	225.00		
							564.30	7334.80	4139027.64
	Basic Rate	6668.00							
	Area Weightage @ 10%	666.80							
	Total	7334.80							
25	Geophysical investigation at site for sinking borewells for supplying drinking water to the habitation either through the Hand Pump MWS or P.W.S.S, by vertical electrical sounding by adopting Venner or Schlumbergers's method, including reconnaissance survey of geological formation. Geophysical investigation of existing ground water in the vicinity, its quality, quantity and acceptability of the users, indicating the location of the site, recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 metre in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of								
		Each	1		1.00		1.00	5141.00	5141.00

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	Job no:-						Est .Cost Rs.	300.00	Lakhs
Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
26	Sinking of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burdern upto 20 m. Fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicle, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (Excluding cost of casing pipes, collars, cap etc., complete)SR 2021-22 Volume V P.No 152 I.NO 1 S no O010 ABCDEFGHI-2nd Corrigendum Date-								
	a) 0.00 to 50.00 mts	Rmt	1		50.00		50.00	347.00	17350.00
	b) 50.00 to 100.00 mts	Rmt	1		50.00		50.00	442.00	22100.00
	c) 100.00 to 150.00 mts	Rmt	1		50.00		50.00	456.00	22800.00
	d) 150.00 to 200.00 mts	Rmt	1		50.00		50.00	536.00	26800.00
	e) 200.00 to 250.00 mts	Rmt	1		50.00		50.00	634.00	31700.00
27	Supply of ISI mark 175mm nominal bore,plain and steel casing pipe grade of steel Fe 410 of wall thickness conforming to IS 4270-2001 and latest ammendments, electrical resistance welded steel tubes, material and conforming to IS 1387-1993 and manufactured by basic open hearth electric or basic oxygen process in random length of 5-7m both ends.threaded conforming to IS 554-1985 one end fixed with socket conforming to IS 4270 2001 and the other end with screwed pipes all shall be responsibaly free from defects. The tubes shall be responsible straight end should be with ISI marking weighing 25.10kg/m.prices include Collar-Medium duty.SR 2021-22 Volume V P.No 154 I.NO 32								
	Casing pipe	Rmt	1		60.00		60.00	1933.00	115980.00
28	Supply and fixing Borewell cap and clamp set Page No XL VIII, Sl PWD SR 2018-19.								
		Each	1		1		1.00	1800.00	1800.00
29	Prviding nd fixing 200 mm dia 6 kgs/cm PVC pipe (PRED SR 14-15 P-III No: 86								
		Rmtr	1		15		15.00	2600.00	39000.00
30	Supply and delivery at site brand new CRI/Texmo/Atlanta/Luby/Suguna make or any equivalent ISI make suitable for vertical installation in 150 mm bore ells comprising of single stage or multistage CF pump closed by mens of sainless steel coumpling to suitable HP, suitable speed totally enclosed and fitted with pure drinking water (wet type) squirrel cage submersible indextion motor suitable for operationof 3 PH 50Hz 380/440 volts AC supply fitted with required accessories , sand gaurd non return value, etc complete the pump and motor shell form an integral unit with all the required fitting 15 HP/30 stage (including VAT) with all lead and lift and as per directions of engineer in charge of the work (PW_P & IWTD B.C- 2018-19/Sl No 51 PNo XLII								
	15HP/30 STAGE Sub mersible pump set								
		No	1		1		1.00	78036.00	78036.00
31	KSRB 13.3.6 Providing and fixing to wall, ceiling and floor galvanised / mild steel tube 50mm ia nominal bore with fittings (medium grade weight 1.27 Kg/mtr) B class including cost of all materials, labour charges, HOM of equipment and testing complete as per specifications. Specification No. KBS 13.2.14/13.8 (P-93, It.13.16, PWD SR:2018-19)								
		Rmt	1		250		250.00		
	Borewell Point to Pipe Line		1		12		12.00		
							262.00	525.76	137749.12
	Basic Rate:	496.00							
	AW @ 6%	29.76							
	Total	525.76							
32	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper conductor cofirming to table 3 class 5 to IS 8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100 volts with specified IS 694:1990 and confirming to the attwached GTP of Group A 3C x 6.0 Sq.mm PWD SR 2018-19. Page : XLVII, Item: 9,								
		Mtr	1		360.00		360.00	220.00	79200.00
33	Labour charges for Errection of pumpset including aligning and balancing with all necessary erection materials and labour including supply and erection of one pair of supporting clams, borewell cap, cable clips with bolts, nuts, valve gauges etc., involved in the job. (Necessary G.I.Pipe and specials will be supplied by the board at the site free of cost)and released pumpset should be handed over to department including transportation (Each length= 6.00) item 18 SR 2017-18)								
		Length	1		43.66		43.66	92.00	4016.72

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	Job no:-						Est .Cost Rs.	300.00	Lakhs
Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
34	Supplying and fixing 50mm heavy duty GI Collars. (PWD SR 2018-19, P-XLVII), ITEM :2 (Accessories of pump set).								
		Nos	1		35		35.00	180.00	6300.00
35	Providing and fixing in position 50mm Nominal bore non- return valve vertical type of approved make including cost of all materials, labour and HOM of equipment with all leads compleate as per specification.(PWD SR 2018-19, P-XLVII, It-16) under Accessories of pump set								
		Nos	1		1		1.00	1800.00	1800.00
36	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :SR 2021-22 Volume II P.No 117 I.No								
		Nos	1		1		1.00	543.00	543.00
37	Supplying and fixing 50mm GI Nipple (PWD SR 2018-19,P-XXXIX)								
		Nos	1		3		3.00	104.30	312.90
38	Supplying and fixing 50 mm dia GI Bend with ISI mark (PWP & IWTD B C) 2015-16								
		Nos	1		3		3.00	124.00	372.00
39	Supplying of on load charges over switches 4 poles, 415V 5 Hr Ac supply 100-125 amps Group A (BWSSB SR Rate P No.3481, It No. II Group A)								
		Nos	1		1		1.00	9845.00	9845.00
40	Supplying and fully automatic star-delta unit push button type with suitable wires, 3 contactosr, one adjustable thermal timer mounted on a common base late held in steel enclosure for use on 440/440 volts 3 phase and wired after to the existing wooden board for motor 12.5 HP (BWSSB SR P No.335, It No.10(A)								
		Nos	1		1		1.00	5665.00	5665.00
41	Erection of single phase preventer / ammeters / including fixing selector switch / voltmeter / current operated earth leakage circuit breakers / voltage operated circuit breaker / above 100A fuse channel set (3 Nos) HRC fuses above100A (3 Nos.) / Digital ammeter/digital volt meter/set of3 indicating IA /MCB / Relays /A-V selector switches including wiring using suitable capacity wires, bolts, nuts, screws. (P-46, It. No.13.16 ELE SR 2021-2022)								
		LENGTH	1		1		1.00	162.00	162.00
42	Out door Panel board upto 20 HP (PWD SR PG -XLVII item- 13)								
		Nos	1		1		1.00	21000.00	21000.00
43	Supplying & fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. - 50-63 A SP (ELE SR-2021-22, P-13, It No.5.17.3)								
		Nos	1		1		1.00	734.00	734.00
44	Supplying andrunning of GI copper strip or grounding connection using necessary fixing material required 600x600c3mm GI plate (P-378, It9(E)								
		Nos	1		1		1.00	1072.00	1072.00
45	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers. (ELE SR 2021-22, P NO 10,I No. 5.7.2								
		Nos	1		3		3.00	200.00	600.00
46	Fabricating supplying and mounting MS box made out ....SWG suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clA with necessary cable entry pipe with gland and box should be finished with 7tanks treatment with powder coated paint and finally finished with approved colour etc., complete. (Page No 15 I No 5.42.2 KPWD Electrical SR 2021-22								
	16 SWG	cms	1x2	120	60		14400.00		
			2	320	25		16000.00		
							30400.00	0.38	11552.00

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	Job no:-						Est .Cost Rs.	300.00	Lakhs
Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
47	Providing and fixing Brass full way valve gate with C.I. wheel of approved quality (screwed end) 50mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete s per specifications. Specification No.KBS 13.2.6/ 13.3 (VOL-2 PWD SR 2021-22 P-115, It.No.13.4.4)								
		Nos	1		1	1	1.00	917.40	917.40
	Basic Rate:	834.00							
	AW @ 10%	83.40							
	Total	917.40							
48	Supplying and laying of L.T.U.G cable having aluminium conductor PVC insulated shethed galvanised steel wire/steel tape armoured cable with PVC outer sheathing 1.1 KV class 4 core 16 Sqmm PVC cable (KPWD Elec SR 2010-11, P-No 68 & 69/No 4-1 d)								
		Mtr	1		28.00		28.00	140.00	3920.00
49	Labour charges for Laying of 1.1 KV Class UG cable 6 Sqmm to 16 sqmm (KPWD Elec SR 2010-11P -69, Item- 5.1a								
		Mts	1		28.00		28.00	10.80	302.40
50	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating in Hard soil etc., complete. complete as per specifications and direction of the Engineer-in-Charge (KPWD Electrical SR 2010-11)P-70 Item - 10b								
		Mtr	1		150.00		150.00	106.00	15900.00
51	Supplying and fixing Class-A (Medium duty) -GI pipe wall thickness not less than 3.25mm on pole/wall/Drain crossing with necessary clamping arrangements for UG Cable of 1.1 KV class 40mm (KPWD Ele SR 2010-11 P -70/N0 9 a								
		Mtr	1		18.00		18.00	345.00	6210.00
52	Supplying and fixing LT cast iron pot heads suitable for 1.1 KV class UG cable filled wiith necessary bitumen / insulating compound complete. With terminals, clamps, bolts nuts and washers etc.complete for 16 Sqmm as per specification ((KPWD SR 2018-19, Page XI VII item No:21 under accessories of pump set installation								
		Each	1		1		1.00	360.00	360.00
53	Earth work excavation for pipelines/cables by Manual means upto 600 mm trench width, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, including dressing of excavated surfaces, disposing off or leveling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m. Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering and lift upto 1.5 m including cost of labour, tools, usage& other appurtenances required to complete the work In all kinds of soils Depth upto 1.50m (P-6 It 1.6.1 VOL-1 PWD CSR-2021-22)								
	for Pipe line		1	145.00	0.60	0.60	52.20		
		Cum				Total	52.20	517.00	26987.40
	Basic Rate:	470.00							
	AW @ 10%	47.00							
	Total	517.00							
54	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) 20mm pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, including fixing the pipe and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete(concealed work including cutting chases and good the walls etc,(External Work) (PWD SR 2021-22, P.No.2,I.No.13.33.2 1st Corrigendum Additonal Date-21.04.2022) 50mm nominal OD pipes								
	50mm outer dia		1		180.00		180.00		
		Mts				Total	180.00	772.20	138996.00
	Basic Rate:	702.00							
	AW @ 10%	70.20							
	Total	772.20							
55	KSRB13-9 : Providing and fixing to wall, ceiling and floor high density polyethylene pipes 6.00 kgf/sq.cm working pressure of outside diameter raising mains & exposed distribution pipes with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM and testing complete as per specifications. Specification No. KBS 13.2.15.2 / 13.9 13.71 KSRB13-9.1 - do - 32 mm dia to run flat cable inside this pipe								
	50mm outer dia		1		190.00		190.00		

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Job no:-						Est .Cost Rs.	300.00	Lakhs
Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
		Mts				Total	190.00	210.60	40014.00
	Basic Rate:	195.00							
	AW @ 8%	15.60							
	Total	210.60							
56	Refilling available earth around trenches/pipelines, cables in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with a lead upto 50 m , and lift upto 1.5 m. Including cost of all labour complete as per specifications .(P.No 7, I.No 1.10 of Vol-1 CSR 2021-22)								
	85% Qty vide item No 26	Cum		52.20	0.85	Total	44.37	134.20	5954.45
	Basic Rate:	122.00							
	AW @ 10%	12.20							
	Total	134.20							
57	BESCOM charges & KEB Deposit								
		Nos	1	1			1	15000.00	15000.00
58	Spplying, fixing ,wiring, earth electrode for grounding conduits, IC cutouts and other equipments on the meter board using 40mm dia 2.9mm thick GI pipe 2.5 mtr long buried in a pit... the pit should be filled with equal proportion of salt and charcoal 150mm alround the pipe to complete depth. The connectionh from the pipe to the conduit etc, is to be established through GI wire of size as per ISI Specification 7.3.3. of IS 732 using 12mm dia bolts, nuts,wahers anfd check nuts etc,the pipe shall have 16 through hole of 122 mm dia(68/1)(I.No-7.22.3 of PWD S.R 2014-15)								
		Nos	1	1			1	3000.00	3000.00
	CIVIL WORKS								
59	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead C. Prestressed / Reinforced cement concrete grade M-20 & above. MORTH Specification No. 202 Page No: 18.19, Page: 139 .(VOL-3 PWD SR 2021-22, P-8 It -2.7 C)								
	Compound wall		1	3.20	0.30	2.50	2.40		
	front		1	3.00	0.60	0.45	0.81		
							3.21	2038.30	6542.94
	Basic Rate:	1853.00							
	AW @ 10%	185.30							
	Total	2038.30							
60	Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work. In Ordinary/Soft rock upto 300 mm depth. (Vol-I P.No-8 I.No-1.13 CSR 2021-22) 2nd Corrigenda 06-07-2022								
						Cum			
	Site Clearing		1	6.60	3.50	0.50	11.55		
	Drain desilting		1	50.00	0.60	0.60	18.00		
							29.55	298.10	8808.86
	Basic Rate:	271.00							
	AW @ 10%	27.10							
	Total	298.10							
61	Earth work excavation for Foundation by mechanical means for all works & depth upto 3 m, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenaces required to complete the work In ordinary/soft rock without blasting upto 1.5 m depth (CSR Vol I P.No 8 I.No 1.15.1 CSR 2021-22)								
	Brahamagiri Apartment					Cum			
	For Footing		4	1.60	1.60	1.50	15.36		
	SSM For Foundation		2	4.85	0.75	0.90	6.55		
			2	2.65	0.75	0.90	3.58		

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Job no:-						Est .Cost Rs.	300.00	Lakhs
Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
	For steps in front		1	3.20	0.75	0.60	1.44		
							26.93	299.20	8055.96
	Basic Rate:	272.00							
	AW @ 10%	27.20							
	Total	299.20							
62	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10) Using 20 mm and down size graded crushed coarse aggregates..(Vol-I P.No-15 I.No-2.1.4 CSR-2021-22)								
						Cum			
	For Footing		4	1.60	1.60	0.15	1.54		
	SSM For Foundation		2	4.85	0.75	0.15	1.09		
			2	2.65	0.75	0.15	0.60		
	PCC for flooring		1	4.80	2.40	0.15	1.73		
							4.95	6518.60	32276.85
	Basic Rate:	5926.00							
	AW @ 10%	592.60							
	Total	6518.60							
63	Cost of howlage including Add loading, unloading item surface road up to 15kms . Loading and unloading charges Pg No.139 BR=668+(1.28*2.50*15) =116								
	Removing debris up to 15 Kms	Cum		Qty Item (30+31+32)			59.69	116.00	6923.46
64	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.(Page.25/Item No. 5.6)(PWD SR 2018-19								
						Cum			
	SSM For Foundation		2	4.85	0.60	0.60	3.49		
			2	2.65	0.60	0.60	1.91		
							5.40	4963.68	26803.87
	Basic Rate:	4596.00							
	AW @ 8%	367.68							
	Total	4963.68							
65	building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately) (Page.17 /Item No. 2.5.1 VOL-1 PWD CSR 2021-22)								
						Cum			
	For Footing		4	1.60	1.60	0.40	4.10		
	For Coloumn Up to Plinth		4	0.23	0.23	1.35	0.29		
	For Plinth Beam		2	5.00	0.23	0.23	0.53		
			2	2.20	0.23	0.23	0.23		
	Coloumn up to Roof		4	0.23	0.23	2.40	0.51		
	Roof Beam		2	4.85	0.23	0.38	0.85		
			2	2.20	0.23	0.38	0.38		
	For Roof Slab		1	4.85	3.70	0.125	2.24		
	Flaggoing Concrete		1	6.10	3.10	0.10	1.89		
	Drain coping		2	6.10	0.20	0.20	0.49		
	for steps		1	3.20	0.60	0.08	0.14		
							11.65	7118.10	82923.91
	Basic Rate:	6471.00							
	AW @ 10%	647.10							
	Total	7118.10							
66	Refilling available earth around trenches/pipelines, cables in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with a lead upto 50 m , and lift upto 1.5 m. Including cost of all labour complete as per specifications (Page.35/Item No.1.10) VOL-1 CSR of 2021-22								

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	Job no:-					Est .Cost Rs.		300.00	Lakhs
Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
						Cum			
	For Footing		4	1.60	1.60	1.50	15.36		
	Filling within plinth		1	4.57	2.18	0.40	3.99		
							19.35	134.20	2596.10
	Basic Rate:	122.00							
	AW @ 10%	12.20							
	Total	134.20							
67	Providing Thermo-Mechanically Treated bars of grade Fe-500D or more Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position, binding and anchoring to adjacent members whereever necessary complete as per Design including cost of material, labour, usage charges complete as per specifications. (The laps and wastages shall not be measured separately)(Vol-II ,P.No-84, I.No-11.32, SRB-2021-22)Issue Rate Date on 07.04.2022								
	Consider 110Kg.cum	11.65	110				1281.47		
		Mt					1281.47	116.60	149419.37
	Basic Rate:	106.00							
	AW @ 10%	10.60							
	Total	116.60							
68	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specificaitons. (Page.16/I.No.4.31) SR of 2018-19								
						Sqm			
	For Footing		4	4.80		0.40	7.68		
	Fror Coloumn Up to Plinth		4	0.92		1.35	4.97		
	For Plinth Beam	2	2	5.90		0.23	2.71		
		2	2	2.20		0.23	1.01		
	Coloumn up to Roof		4	0.92		2.40	8.83		
	Roof Beam sides	2	2	5.90		0.30	3.54		
		2	2	2.80		0.30	1.68		
	For Roof Slab Sides 2x5.9+2x2.65		1	17.10		0.125	2.14		
							32.56	386.64	12590.35
	Basic Rate:	358.00							
	AW @ 8%	28.64							
	Total	386.64							
69	KSRB 4-6.3 : Providing and removing centering, shuttering, strutting, propping etc.,and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness above 200 mm including cost of all materials, labour complete as per specificaiton. Specification No. KBS 4.6.2 (Page.16/Item No.4.30)SR of 2018-19.								
						Sqm			
	For Roof Slab		1	5.95	3.70		22.02	475.20	10461.53
	Basic Rate:	440.00							
	AW @ 8%	35.20							
	Total	475.20							
70	KSRB 5-14.1 Providing and constructing precast concrete solid blocks with compressive strength not less than 3.5 Newton per sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x15x20cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding,curing complete as per specifications(Page.27/Item No.5.27.2) SR of 2018-19								
						Sqm			
	For Wall		2	2.20		2.40	10.56		
			2	4.60		2.40	22.08		
	Parpet Wall		1	17.20		0.40	6.88		
	for steps		1	3.20		0.60	1.92		
			-1	1.20		2.40	-2.88		
	Deduction for Rolling Shuuters		-1	3.00		2.40	-7.20		
	Ventilator		-1	0.60		0.45	-0.27		
							31.09	1045.72	32511.57
	Basic Rate:	968.26							
	AW @ 8%	77.46							
	Total	1045.72							
71	KSRB15-3.14 : Providing 12mm thick cement plaster in single coat with cement mortar 1:4, to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications (Page.117/Item 15.22) SR OF 2018-19								

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Est .Cost Rs. 300.00 Lakhs

Job no:-

Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
						Sqm			
	For Ceiling		1	4.60	2.20		10.12		
			2	4.90	0.60		5.88		
							16.00	253.97	4063.56
	Basic Rate	215.16							
	AW @ 8%	18.81							
	Total	253.97							
72	Providing 15 mm cement plaster on the rough side of single or half brick wall of mix 1:4 (1 cement: 4 fine sand) including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. (Pg No-41,11 to 8.2.1, Vol 2 SPB 2021-22)								
						Sqm			
	For Inside Wall		1	13.60	2.40		32.64		
	Deduction Open	0.5	-1	2.40	2.40		-5.76		
	Deduction Rolling Shutter	0.5	-1	3.00	2.40		-7.20		
							19.68	278.30	5476.94
	Basic Rate	253.00							
	AW @ 10%	25.30							
	Total	278.30							
73	KSRB 15.15 : Providing 15mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications (Page.117/1.No.15.16) SR of 2018-19.								
						Sqm			
	For Outside Wall		1	14.80	3.10		45.88		
	Parapet Wall		1	14.80	0.95		14.06		
	Roof top with water proof		1	4.60	2.20		10.12		
	Deduction Open	0.50	-1	3.00	2.40		-3.60		
	Deduction Rolling Shutter	0.50	-1	2.40	2.40		-2.88		
	Ventilator	0.50	-1	0.60	0.45		-0.14		
							63.45	296.44	18807.53
	Basic Rate:	274.48							
	AW @ 8%	21.96							
	Total	296.44							
74	Providing and laying in position Reinforced cement concrete for all Foundation works. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticizers laid in finished layers, well compacted using needle vibrators, including all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately)M20 Design Mix Using								
						Sqm			
	For Inside Flooring		1	4.60	2.60		11.96	6854.10	81975.04
	Basic Rate:	6231.00							
	AW @10 %	623.10							
	Total	6854.10							
75	Providing and fixing Vitrified glazed tiles of approved make, quality and colour of size 600x600x10mm thick fixed on existing flooring with a special adhesive for flooring, skirting and jointed with neat cement slurry mixed with pigment to match shade of tiles, including providing spears at required interval and removing stains etc., complete as per specification (Page.110 /1.No.14.44)SR of 2018-19.								
						Sqm			
	For Inside Flooring		1	4.60	2.20		10.12		
	For Steps		3	5.00	0.45		6.75		
	Internal wall		1	13.60	2.40		32.64		
	External wall		1	2.00	2.40		4.80		
	Deduction Rolling Shutter		-1	3.00	2.40		-7.20		
			-1	2.40	2.40		-5.76		
			-1	0.60	0.45		-0.81	1117.80	46221.03
	Basic Rate:	1035.00							
	AW @ 8%	82.80							

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	Job no:-					Est .Cost Rs.		300.00	Lakhs
Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
	Total	1117.80							
76	KSRB 7.7 : Providing and fixing in position in cement concrete 1:3:6 steel glazed windows and ventilators side hung/top hung fully openable as per approved drawings using Z angles of 25x33x3mm, weighing 1.419 Kg/m both for outer and inner frames and central mullion section of size 25x46x3mm. weighing 2.28Kg/m duly providing T section 19x19x3mm weighing 0.839 kg/m holdfasts of approved size, section should be cut to length welded and electrically grinded subdividing frames of unit shall be tenonned and revetted into the frames electrically. All the steel surface shall be throughly cleaned free of rust and painted with one coat of anti-corosive paint and finishing with two coats of ready mix paint of approved colour and make including cost of materials, fixtures, labour and HOM of machinerycomplete as per specifications. Specification No. ISSUE RATE								
						Sqm			
	MS Grill Ventilater		1	0.60		0.45	0.27	161.70	43.66
	Basic Rate:	147.00							
	AW @ 10%	14.70							
	Total	161.70							
77	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters. 80x1.25 mm M.S. laths with 1.25 mm thick top cover including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge.(P.No-76 I.No-11.6.1 Vol-2 of SRB-2021-22)								
						Sqm			
	Rolling Shutter		1	3.20		2.65	8.48		
			1	1.00		2.65	2.65		
				20.00			11.13	2761.00	30729.93
	Basic Rate:	2510.00							
	AW @ 10%	251.00							
	Total	2761.00							
78	KSRB15-7 : Providing lime rendering for plastering to wall and ceiling, including cost of materials, labour, curing complete as per specifications.(Page 117/Item 15.33 SR 2018-19								
						Sqm			
	Same as Qty Item No. 46 & 47			35.68			35.68	34.56	1233.10
	Basic Rate:	32.00							
	AW @ 8%	2.56							
	Total	34.56							
79	KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications.(Page.120/Item No.15.53.2) SR 2018-19								
						Sqm			
	Same as Qty Item No. 47						63.45	110.16	6989.10
	Basic Rate:	102.00							
	AW @ 8%	8.16							
	Total	110.16							
80	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade: One coats on old work as per specifications and as per directions of Engineer in charge. (VOL-2 SR 2021-22 Page.51/Item 8.63)								
						Sqm			
	Same as Qty Item No.						35.68	68.20	2433.38
	Basic Rate:	62.00							
	AW @ 10%	6.20							
	Total	68.20							

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	Job no:-					Est .Cost Rs.	300.00	Lakhs
Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
81	KSRB 7.15 : Providing, fabricating, assembling and fixing in position anodized aluminium partitions using aluminium sections of mat finish or glassy finish in combination of plain grove, single grove and double grove as per requirements for the frames of overall size 63.5mm x 38.1mm. with thickness of 2mm. having section weight, plain sections 1.054kg/m, single grove thickness 1.95mm. section weight 1.094kg/m, double grove thickness 1.9mm section weight 1.094kg/m and bottom member 114.3 mm. x 44.45mm. thickness 3.18mm. weight 2.646 kg/m; aluminium louvres section of size 36.5mmx34.93mm 1.45mm. thick section weight 0.429kg/m; bottom portions provided with 12mm. 0.9m height, spacing of vertical member not exceeding 0.6 m. c to c; sections are cut to the required lengths joints mitered and corners grinded subdividing frames tennoned and rivetted to the frames; the assembled frame stiffened with corner angles, stripped and fixed with screws, raaluminiumprevention of further rust formation, coated with greasy materials for non-adherence of mortars or any other sticky materials; vertical members embedded in the flooring by making suitable sized holes and fixing with cement mortar, with necessary opening for fixing of door of standard size (excluding cost of door) all the frame throughly cleaned, free from rust, scale or dirt including cost of materials, fixtures, labour and HOM of machinery complete as per							
						Sqm		
	Aluminiun Door & Paritition		1	3.00		2.40	7.20	
			1	2.50		2.50	6.25	
							13.45	3633.12	48865.46
	Basic Rate:	3364.00						
	AW @ 8%	269.12						
	Total	3633.12						
82	5.29 Providing and fixing Pre cast solid concrete kerb sones made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc complete of size 450x200x400 Page No 27 Item No 5.29.1 /PWD SR 2018-19							
						Nos		
			1		125.00		125	486.00	60750.00
	Basic Rate:	450.00						
	AW @ 8%	36.00						
	Total	486.00						
83	Providing and laying 100 mm thick pre cast cover slabs over drain of width not exceeding 800 mm using M 20 concrete reinforced with steel @ 6.00 kg/sqm slabs jointed in CM 1:3 proporaotion and nicely finished including providing holes in the cover slabs wherever necessary for easy drainage of surface water including of labour materials HOM of machineries, curing lead and lift charges etc., complete as per MORTH specifications No 1500, 1700 Page No 272 Item No 37.66							
						MTS		
			1		50.00		50	1167.48	58374.00
	Basic Rate:	1081.00						
	AW @ 8%	86.48						
	Total	1167.48						
84	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :Two coats on new work after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of							
						Sqm		
			1	125	0.40		50.00	99.00	4950.00
	Basic Rate:	90.00						
	AW @ 10%	9.00						
	Total	99.00						
	RO							
85	KSRB 13-11.1 : Providing and placing on terrace, polyethylene water storage tanks with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per specifications.(For 1000 litre capacity) Specification No.KBS 13.22 Page no: 96 Item No 13.78 SR 2018-19.							
						Nos		
			1				1.00	6828.00	6828.00

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	Job no:-					Est .Cost Rs.		300.00	Lakhs
Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
86	Raw water feed pump with starter,Type-Horizontal Centrifugal,Make-Grundfos / Beacon weir / Sumo/ CNP(SS),Material of Construction-Cast Iron,Head-36 MWC, Motor-3 HP/3Phase Starter-L&T Siemen make push botton type DOL Starter (Data rate approved)					Nos	1	24500.00	24500.00
87	Multi graded sand filter,type-verticle,Floor Mounted,Make-pentair/structural/ION EXCHANGE(INDIA) LTD/Zeolite/ Aquatio,min.operating Pressure 2.0kg/cm2,Max. Operating Pressure -3.5kg/cm2. Treatment Flow Rate-6000liters/Hr,Type of valve size-Multiport 50NB make-UKL/Initiative,Filtering Media -Gravel,Graded Sand &					Nos	1	33000.00	33000.00
88	Activated carbon Filter type-Verticle,Floor Mounted,Make-pentair/Structural/ION EXCHANGE(INDIA) LTD/Zeolite/ Aquatio,min.operating Pressure 2.0kg/cm2,Max. Operating Pressure -3.5kg/cm2. Treatment Flow Rate-6000liters/Hr,Type of valve size-Multiport 50NB make-UKL/Initiative,Filtering Media -Gravel, Activated					Nos	1	62500.00	62500.00
89	Water Softner,type-Verticle,Floor Mounted,Make-pentair/Structural/ION EXCHANGE(INDIA) LTD/Zeolite/ Aquatio,min.operating Pressure 2.0kg/cm2,Max. Operating Pressure 3.5kg/cm2. Treatment Flow Rate-6000liters/Hr,Type of Resin INDION 220Na or Thermax T40 (Data rate					Nos	1	62000.00	62000.00
90	Antiscalant Dosing System,Equipment Required-Electronic Dosing Pump with Solution Tank,make-Ion Exchange (I) Ltd../ASIA LMI/Zeolite,Material of Construction-PP(Polypropelene),Discharge @Max Back Pressure-2.88litr/Hr @8bar,Discharge@Nominal Back Pressure-3.12Lit/Hr @ 4Bar,Chemical to be dosed-INDION Antiscalant (Data rate approved)					Nos	1	85000.00	85000.00
91	Accessories for Dosing System,Solution Tank-One No,Volume-100Litres,Material of Construction-HDPE,Tank level Switch-One No. (Data rate					Nos	1	42000.00	42000.00
92	Reverse Osmosis System,Type-Horizontal Skid,Floor Mounted,Permeate water-Minimum 2000litr/hr,Maximum Permissable TDS in feed (PPM)-2500.					Nos	1	89000.00	89000.00
93	Pressure Vessel,Material of Construction-FRP,Make-Advance Composite/Code Line					Nos	1	85000.00	85000.00
94	Membrane, Type-Brackish water . Nos required-Three,Make-TORAY JAPAN /Hydranautics/Filmtec/Tricep (Data rate approved)					Nos	1	88000.00	88000.00
95	High pressure pump,Type- verticle,multistage,Make-GRUNDFOS,MOTOR-7.5 HP 3Phase, Model-CRN series,Material of construction-SS316,starter-L&T/Seimens make push botton type DOL starter (Data rate approved)					Nos	1	55000.00	55000.00
96	Micron Filter,Type -JUMBO,Material of construction of housing-poly propelene (Data rate approved)					Nos	1	78000.00	78000.00
97	Instruction, Wet panel -Ms powder coated., Mounted on R.O> skid, Low pressure switch-one No,High Pressure Switch-one, Digitalconductivity Meter wiyh sensor , Indon brand-one No , ON/OFF selector Switch -one No, High pressure System Pressure Gauge - one No, Auto Flush Timer -one No, Indication Lamps -one No, product Flow Meter- one No, Reject Flow Meter-one No,Reject Re-circolation Meter-one No,Alarm-one No (Data rate approved)					Nos	1	86000.00	86000.00
98	pH correction dosing System, Equipment Required-Electronic Dosing Pump with solution Tank, Make-Ion Exchange(1) Ltd../ASIA LMI/Zeolite,Material of construction -PP, Discharge @ max . Back Pressure-2.88 Lit/Hr@8Bar.Discharge@Nominal Back Pressure-3.12 Lit/Hr@4Bar,Frequency-100 Strokes / Min, Chemical to be dosed-PH Booster (Data rate approved)					Nos	1	83000.00	83000.00
99	Solution Tank with level switch, Solution Tank-one No, Volume-100 Liters. Material of construction-HDPE. Tank levelswitch-one No					Nos	1	15000.00	15000.00
100	Inter-connecting pipe work ,Raw water tank to feed pump suction and feed pump delivery to R.O. Inlet (up to High pressure pump in let)and RO outlet to Treated water tank-food Grade PVC pipe 40mm NB, Make-Finolex/ supreme,High pressure pump outlet to membrane inlet-ss pipe of required size, Approximate Length-35.0 Metre (Data rate approved)					Nos	1	78000.00	78000.00
101	Ultra violet system, Model-UVS-20,Make-Ion Exchange (I) Ltd./ASIA LMI/Zeolite,ALFA Flow rate-2000L/H (Data rate approved)					Nos	1	74500.00	74500.00
102	RO water strong tank, 2000 ltrs SS tank, to store RO water with required nozzles (Data rate approved)					Nos	1	80000.00	80000.00
103	Wending Machine ,Digital Swiping Card /coin BoxType (Data rate approved)					Nos	1	35000.00	35000.00

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	Job no:-					Est .Cost Rs.		300.00	Lakhs
Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
104	Supplying heavy gauge PVC conduit pipe ..... dia ..... mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc , and fixing using inverted wood plugs in case of RCC ceiling and RCC wall/ stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws. 25mm dia	mtr					25.00	80.00	2000.00
105	Supplying heavy gauge PVC conduit pipe ..... mm dia.....mm thick confirming to IS 2509 with suitable size bends, metal/PVC Junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary. 25 mm dia 2 mm thick (ELE SR 2021-22 Page-1, Item-1.2.2)	mtr					25.00	70.00	1750.00
106	Supplying heavy gauge PVC Conduit Pipe .... dia ..... mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering upto the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary.	Each					20.00	80.00	1600.00
107	Supplying and fixing sheet Metal box made out of 18 SWG sheet metal with necessary holes for cable/conduit entry as required with one coat of primer of approved make etc.(ELE SR 2021-22 Page-1, Item-1.4)								
	1.4.3) 135x75x65mm	Each					1.00	131.00	131.00
	1.4.4) 180x90x65mm	Each					1.00	155.00	155.00
	1.4.5) 200x90x65mm	Each					1.00	169.00	169.00
108	Supplying and fixing PVC/metal conduit accessories.(3/5) (ELE SR 2021-22 Page-1, Item-1.5)1. Special type junction box 2. Deep junction box	Each							
	1.5.2) 25mm junction box	Each					1.00	51.00	51.00
	1.5.3) 32mm deep junction box	Each					1.00	69.00	69.00
109	Supplying and flush mounting teak wooden box without front plank, made of not less than 12 mm thick wood, after due groove cutting, finishing with necessary cement plastering complete.(ELE SR 2021-22 Page-2, Item-1.6)								
	1.6.1) 12"x12"x3" (330x300x76mm)	Each					5.00	112.00	560.00
	1.6.2) 12"x9"x3" (300x228x76mm)	Each					5.00	105.00	525.00
110	Supplying and wiring adopting loop system in existing PVC Conduit /casing capping using 2x1.5mm2 (Phase & Neutral) & 1x1.0 mm2 (Earth wire) FRLS multi strand PVC insulated copper wire (confirming to IS-694: and latest amendments) with a 6A flush type SP control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet.(ELE SR 2021-22 Page-2, Item-2.1)								
a	Short point up to 3Mtr from tapping point to out let via switchEach point. 2.1.1	Each					2.00	276.00	552.00
b	Medium point above 3Mtr up to 6Mtr from tapping point to out let via switch (Each point) 2.1.2	Each					2.00	386.00	772.00
111	Supplying and wiring adopting loop system in existing PVC Conduit /casing capping casing capping using 2x1.5mm2 (Phase & Neutral) & 1x1.0 mm2 (Earth wire) FRLS multi strand PVC insulated copper wire (confirming to IS-694: and latest amendments) without control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet.(ELE SR 2019-20 Page-1, Item-2.2)								
	Short point up to 3Mtr from tapping point to out let via switch box 2.2.1	mtr					2.00	251.00	502.00
	Medium point above 3Mtr up to 6Mtr from tapping point to out let via switch box 2.2.2	mtr					2.00	361.00	722.00
112	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293. (ELE SR 2019-20 Page-5, Item-3.6.3)I. 6Amps 3way socket	Each					5.00	162.00	810.00
113	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/dimmer/telephone socket etc on existing modular switch plate..(ELE SR 2021-22 Page-5, Item-3.6)I.Using Group "A" materials								
	3.6.1) 6Amps one way.	Each					2.00	88.00	176.00
	3.6.10) 32Amps DP switch	Each					2.00	375.00	750.00
	3.6.11) 6/16Amps universal socket	Each					2.00	249.00	498.00

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	Job no:-					Est .Cost Rs.		300.00	Lakhs
Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
114	Supplying and fixing 32A security and energy saving DP switch with key tag suitable to operate on 230 V, 50Hz AC supply & completely wired on existing box. (ELE SR 2021-22 Page-6, Item-3.7)					Each	2.00	747.00	1494.00
115	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments. (ELE SR 2021-22 Page-3, Item-2.3)								
	4sqmm. 2.7.1					Mtr	60.00	59.00	3540.00
	6 sqmm 2.7.2					Mtr	60.00	87.00	5220.00
	10 sqmm 2.7.3					Mtr	53.00	157.00	8321.00
116	Supplying and fixing of PVC casing and capping on the wall or ceiling using necessary materials like bends, junction box, elbows, screws at an interval of 300 mm .... etc. as required. 25mm (ELE SR 2021-22) Item-1.8.2 Page-02)					Mtr	10.00	28.00	280.00
117	Supplying PVC/GI flexible conduit pipe .... mm dia fixing on surface over inverted tapered wooden plugs or phill plugs or rawl plugs and clamped using heavy gauge saddles at an interval of 300 mm using NF screws and on either end of the					Mtr	12.00	25.00	300.00
118	Extra for supplying 4mm thick white plastic plate and covering for junction boxes of size 110mm conduit using necessary machine screws. (ELE SR 2021-22 Page-6, Item 3.10.2)					Nos	12.00	12.00	144.00
119	Supplying 50mm wooden plug, tapered from 50x50mm to 25x25mm and fixing by using binding wire before concreting a roof slab. (ELE SR 2021-22 Page-6, Item3.11)					Nos	20.00	8.00	160.00

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	Job no:-					Est .Cost Rs.	300.00	Lakhs	
Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
120	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) 20mm pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, including fixing the pipe and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete(concealed work including cutting chases and good the walls etc, (PWD SR 2021-22, P.No.2,I.No.13.33.2 1st Corrigendum Additonal Date-21.04.2022)					Mtr	25.00	231.00	5775.00
	Basic Rate:	210.00							
	AW @ 10%	21.00							
	Total	231.00							
	Sub Total								24913544.55
	GST 18%								4484438.02
	DPR 1%								300000.00
	Project Management Consultancy 1%								300000.00
	Miscellaneous								2017.43
	Total								30000000.00

CERTIFICATE

1 The Work spot has been inspected and the work found to be necessary
2 The Estimate is prepared as per the PWD SR 2018-19
3 The Provision made in estimate are adequate and essential
4 This area comes under BBMP limits.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Consultants

Asst Engineer
Ward No- 73
BBMP

Asst Executive Engineer
Laggere Sub Division
BBMP

Executive Engineer
RR Nagar Division
BBMP

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BRUHAT BANGALORE MAHANAGARA PALIKE

Excecutive Engineer RR Nagar Division

Detailed Estimate

oF work: Improvements of Roads & Drains in Kottigepalya Village and surrounding areas in Ward no 73, Kottigepalya

Code: | Estimate Cost | 300.00 Lakhs

Description of item	Rate	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
h work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of ges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, ting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly sed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m ding cost of labour, tools & other appurtenaces required to complete the work.In all kinds of soils Depth upto 1.5 m.Item 1.4.1,Page No.A(5), Vol I CSR 21-22									
EARTHWORK	Cum								
NEW DRAIN									
157			2	121.00	1.00	1.00	242.00		
154			2	188.00	1.00	1.00	376.00		
155			2	80.00	1.00	1.00	160.00		
153			2	82.00	1.00	1.00	164.00		
147			2	76.00	1.00	1.00	152.00		
148			2	82.00	1.00	0.90	147.60		
							1241.60	363.56	451396.10
Basic Rate	186.00								
Loading & unLoading	118.00								
for lead for earth (1.28 Tonne / Cum) 16km	40.96								
Area Weightage @ 10%	18.60								
Total	363.56								
viding and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt shed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage rges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. e cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed rse aggregates. CSR 2021-22 Vol-1 Page No.15 I.No.2.1.3									
AIN CEMENT CONCRETE	cum								
DRAIN BED									
157			2	121.00	1.00	0.15	36.30		
154			2	188.00	1.00	0.15	56.40		
155			2	80.00	1.00	0.15	24.00		
153			2	82.00	1.00	0.15	24.60		
147			2	76.00	1.00	0.15	22.80		
148			2	82.00	1.00	0.15	24.60		
							188.70	6,327.20	1193943
Basic Rate	5752.00								
Area Weightage @ 10%	575.20								
	6,327.20								
oviding and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure orks of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse ggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted sing needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, nfirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other.appurtenances quired to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid eparately).M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates.Item No.2.4.2,Page No.17, Vol I CSR 21-2									
NEW DRAIN	Cum								
RAFT									
V0157			2	121.00	0.90	0.15	32.67		
V0154			2	188.00	0.90	0.15	50.76		
V0155			2	80.00	0.90	0.15	21.60		
V0153			2	82.00	0.90	0.15	22.14		
V0147			2	76.00	0.90	0.15	20.52		
V0148			2	82.00	0.90	0.15	22.14		

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Description of item	Rate	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
WALL									
			4	121.00	0.10	0.60	29.04		
57			4	188.00	0.10	0.60	45.12		
54			4	80.00	0.10	0.60	19.20		
55			4	82.00	0.10	0.60	19.68		
53			4	76.00	0.10	0.60	18.24		
47			4	82.00	0.10	0.60	19.68		
48									
							320.79	7225.68	2317926
Basic Rate	6,256.00								
Centering and Shuttering Charges 5%	312.80								
Area Weightage @ 10%	656.88								
Total	7225.68								

plying, Fitting and Placing TMT Fe 500 & above Reinforcement in Foundation / Substructure / Superstructure complete as Drawing and Technical Specifications. Item No.9.3 ,Page No.71, Vol III SR 21-22.ISSUE RATE DATE(7-04-2022)

RCC drain	Tonne								
Total RCC Quantity =	kg						320.79		
For 1 CUM = 60	Kg						60.00		
	Kg						19247.40		
	Tonne						19.25	103724.50	1996426.94
Basic Rate	94295.00								
Area Weightage @ 10%	9,429.50								
Total	103724.50								

viding & laying precast drain cover slab of 100 mm thickness in CM 1:3 including cost of all materials, labour, curing, sportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(0.90 x 0.60 x 0.10) (Approved a rate)

	sqm								
W0157			2	121.00	0.9		217.8		
W0154			2	188.00	0.9		338.4		
W0155			2	80.00	0.9		144		
W0153			2	82.00	0.9		147.6		
W0147			2	76.00	0.9		136.8		
W0148			2	82.00	0.9		147.6		
							1132.20	2072.00	2345918.40
DATA RATE	2072.00								
Total	2072.00								

Asphalt Road

th work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, itting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, posing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 including cost of labour, tools, usage of machinery & other appurtenances required to complete the work.(Page No.8, I.No. 1.12 Vol-1 CSR 2021-22). In all kinds of soils upto 300 mm depth

w Asphalt Rd		Cum							
0157			1	121.00	5.00	0.25	151.25		
0154			1	188.00	5.50	0.25	258.50		
0155			1	80.00	4.60	0.25	92.00		
0153			1	82.00	4.50	0.25	92.25		
0147			1	76.00	4.90	0.25	93.10		
0148			1	101.00	5.50	0.25	138.88		
0360			1	170.00	6.50	0.25	276.25		
0453			1	81.00	6.80	0.25	137.70		
0441			1	104.00	6.50	0.25	169.00		
0437			1	140.00	6.20	0.25	217.00		
0468			1	52.00	5.00	0.25	65.00		
0378			1	102.00	5.00	0.25	127.50		
0385			1	82.00	4.50	0.25	92.25		

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Description of item	Rate	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
179			1	56.00	7.20	0.25	100.80		
181			1	61.00	7.00	0.25	106.75		
183			1	62.00	5.00	0.25	77.50		
189			1	50.00	5.00	0.25	62.50		
							2258.23	161.10	363800.05
Basic rate	65.00								
Add Lead for 10km	89.60								
Area Wieght age @ 10%	6.50								
Total Rate in Rs	161.10								
struction of Granular Sub-Base of required grading as per design mixing in a mechanical mix plant at OMC, carriage of mixed erial to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power er to achieve the desired density, complete as per clause 401. Granular Sub-BasePlant Mix Method. Materia.Item No.4.1(V),Page 19, Vol III SR-21-22									
w Asphalt Rd		Cum							
157			1	121.00	5.00	0.15	90.75		
154			1	188.00	5.50	0.15	155.10		
155			1	80.00	4.60	0.15	55.20		
153			1	82.00	4.50	0.15	55.35		
147			1	76.00	4.90	0.15	55.86		
148			1	101.00	5.50	0.15	83.33		
360			1	170.00	6.50	0.15	165.75		
453			1	81.00	6.80	0.15	82.62		
441			1	104.00	6.50	0.15	101.40		
437			1	140.00	6.20	0.15	130.20		
468			1	52.00	5.00	0.15	39.00		
378			1	102.00	5.00	0.15	76.50		
385			1	82.00	4.50	0.15	55.35		
379			1	56.00	7.20	0.15	60.48		
381			1	61.00	7.00	0.15	64.05		
383			1	62.00	5.00	0.15	46.50		
389			1	50.00	5.00	0.15	37.50		
							1354.94	2581.70	3498035.69
Basic rate	2347.00								
Area Wieght age @ 10%	234.70								
Total Rate in Rs	2581.70								
viding, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the terial with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with ver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired nsity. Wet Mix Macadam (Plant mix method) (Page No.24, I.No. 4.27 of Vol-3 SR 2021-22).									
		Cum							
w Asphalt Rd									
0157			1	121.00	5.00	0.175	105.88		
0154			1	188.00	5.50	0.175	180.95		
0155			1	80.00	4.60	0.175	64.40		
0153			1	82.00	4.50	0.175	64.58		
0147			1	76.00	4.90	0.175	65.17		
0148			1	101.00	5.50	0.175	97.21		
0360			1	170.00	6.50	0.175	193.38		
0453			1	81.00	6.80	0.175	96.39		
0441			1	104.00	6.50	0.175	118.30		
0437			1	140.00	6.20	0.175	151.90		
0468			1	52.00	5.00	0.175	45.50		
0378			1	102.00	5.00	0.175	89.25		
0385			1	82.00	4.50	0.175	64.58		
0379			1	56.00	7.20	0.175	70.56		

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Description of item	Rate	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
			1	61.00	7.00	0.175	74.73		
			1	62.00	5.00	0.175	54.25		
			1	50.00	5.00	0.175	43.75		
							1580.76	2633.40	4162766.80
Basic rate	2394.00								
Area Wieght age @ 10%	239.40								
Total Rate in Rs	2633.40								
ding and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means. (Page No.29, I.No. 5.1 of Vol-3 SR 2021-ssue Rate 07/07/2022									
		Sqm							
Asphalt Rd									
57			1	121.00	5.00		605.00		
54			1	188.00	5.50		1034.00		
55			1	80.00	4.60		368.00		
53			1	82.00	4.50		369.00		
47			1	76.00	4.90		372.40		
48			1	101.00	5.50		555.50		
60			1	170.00	6.50		1105.00		
53			1	81.00	6.80		550.80		
41			1	104.00	6.50		676.00		
37			1	140.00	6.20		868.00		
68			1	52.00	5.00		260.00		
78			1	102.00	5.00		510.00		
85			1	82.00	4.50		369.00		
79			1	56.00	7.20		403.20		
81			1	61.00	7.00		427.00		
83			1	62.00	5.00		310.00		
89			1	50.00	5.00		250.00		
							9032.90	46.20	417319.98
Basic rate	42.00								
Area Wieght age @ 10%	4.20								
Total Rate in Rs	46.20								
minous Macadam Grading - II for traffic <20 MSA Providing and laying Bituminous Macadam with 40/60 TPH capacity hot plant using crushed aggregates of specified grading premixed with bituminous binder VG-30 @ 3.4% by weight of mix, sported to site, laid over a previously prepared surface with mechanical paver finisher to the required grade, level and ument and rolled as per clauses 501.6 and 501.7 to achieve the desired compaction (Page No.31, I.No. 5.8 C of Vol-3 SR 2021-Issue Rate 07/07/2022									
		Cum							
w Asphalt Rd									
157			1	121.00	5.00	0.05	30.25		
154			1	188.00	5.50	0.05	51.70		
155			1	80.00	4.60	0.05	18.40		
153			1	82.00	4.50	0.05	18.45		
147			1	76.00	4.90	0.05	18.62		
148			1	101.00	5.50	0.05	27.78		
360			1	170.00	6.50	0.05	55.25		
453			1	81.00	6.80	0.05	27.54		
441			1	104.00	6.50	0.05	33.80		
437			1	140.00	6.20	0.05	43.40		
468			1	52.00	5.00	0.05	13.00		
378			1	102.00	5.00	0.05	25.50		

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Description of item	Rate	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
00385			1	82.00	4.50	0.05	18.45		
00379			1	56.00	7.20	0.05	20.16		
00381			1	61.00	7.00	0.05	21.35		
00383			1	62.00	5.00	0.05	15.50		
00389			1	50.00	5.00	0.05	12.50		
							451.65	8104.80	3660492.40
Basic rate	7368.00								
Area Wieght age @ 10%	736.80								
Total Rate in Rs	8104.80								
Providing and applying tack coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.20 kg/m2 on the prepared bituminous surface cleaned with mechanical broom(Page No.29, I.No. 5.3 of Vol-3 SR 2021-22).									
		Sqm							
New Asphalt Rd			1	121.00	5.00		605.00		
00157			1	188.00	5.50		1034.00		
00154			1	80.00	4.60		368.00		
00155			1	82.00	4.50		369.00		
00153			1	76.00	4.90		372.40		
00147			1	101.00	5.50		555.50		
00148			1	170.00	6.50		1105.00		
00460			1	81.00	6.80		550.80		
00453			1	104.00	6.50		676.00		
00441			1	140.00	6.20		868.00		
00457			1	52.00	5.00		260.00		
00468			1	102.00	5.00		510.00		
00378			1	82.00	4.50		369.00		
00385			1	56.00	7.20		403.20		
00379			1	61.00	7.00		427.00		
00381			1	62.00	5.00		310.00		
00383			1	50.00	5.00		250.00		
00389									
							9032.90	13.20	119234.28
Basic rate	12.00								
Area Wieght age @ 10%	1.20								
Total Rate in Rs	13.20								
Bituminous Concrete Grading II for traffic <20 MSA Providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 per cent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specificationclause No. 507 complete in all respects(Page No 36, I.No.5.16 C of Vol-3 SR 2021-22).Issue Rate 07/07/2022										
		Sqm							
New Asphalt Rd			1	121.00	5.00	0.04	24.20		
00157			1	188.00	5.50	0.04	41.36		
00154			1	80.00	4.60	0.04	14.72		
00155			1	82.00	4.50	0.04	14.76		
00153			1	76.00	4.90	0.04	14.90		
00147			1	101.00	5.50	0.04	22.22		
00148			1	170.00	6.50	0.04	44.20		
00460			1	81.00	6.80	0.04	22.03		
00453			1	104.00	6.50	0.04	27.04		
00441			1	140.00	6.20	0.04	34.72		
00457									

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Description of item	Rate	Unit	Nos	Dimension			Total Qty	Rate in Rs	Amount in Rs
				L in m	B in m	D in m			
04468			1	52.00	5.00	0.04	10.40		
00378			1	102.00	5.00	0.04	20.40		
00385			1	82.00	4.50	0.04	14.76		
00379			1	56.00	7.20	0.04	16.13		
00381			1	61.00	7.00	0.04	17.08		
00383			1	62.00	5.00	0.04	12.40		
00389			1	50.00	5.00	0.04	10.00		
							361.32	11672.10	4217316.48
Basic rate	10611.00								
Area Wieght age @ 10%	1061.10								
Total Rate in Rs	11672.10								
oad Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous SurfaceProviding and									
ying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/m2 area, thickness of 2.5									
m is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from streaks									
d holes(Page No.57, I.No. 8.15 of Vol-3 SR 2021-22).									
oad Marking		Sqm							
ew Asphalt Rd									
00157			2	121.00	0.10		24.20		
00154			2	188.00	0.10		37.60		
00155			2	80.00	0.10		16.00		
00153			2	82.00	0.10		16.40		
00147			2	76.00	0.10		15.20		
00148			2	101.00	0.10		20.20		
00360			2	170.00	0.10		34.00		
00453			2	81.00	0.10		16.20		
00441			2	104.00	0.10		20.80		
00437			2	140.00	0.10		28.00		
00468			2	52.00	0.10		10.40		
00378			2	102.00	0.10		20.40		
00385			2	82.00	0.10		16.40		
00379			2	56.00	0.10		11.20		
00381			2	61.00	0.10		12.20		
00383			2	62.00	0.10		12.40		
00389			2	50.00	0.10		10.00		
							321.60	525.80	169097.28
Basic rate	478.00								
Area Wieght age @ 10%	47.80								
Total Rate in Rs	525.80								
l Construction Cost									24913672.92
st towards GST @ 18%									4484461.13
tailed Project Report 1%									300000.00
oject Management & Consultancy Charges 1%									300000.00
scilenous and other charges									1865.95
and Total									30000000.00

rtificate:-

That the area comes with in the limits of BBMP, PWD.

That the rates are adopted based on the PWD SR of 2021-22 with Issue Rates issued on 07/04/2020

That the provisions made in the estimate are necessary and quite essential.

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BRUHATH BANGALORE MAHANAGARA PALIKE
EXECUTIVE ENGINEER, RR NAGAR DIVISION

Name of Works : Drilling of Borewells , Providing Water Supply and Construction of RO Plants in Rajarajeshwari nagara Constituency

DETAILED ESTIMATE

Estimated Cost= 5,00,00,000.00

Description of work	Unit	Nos	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
Borewell									
Physical investigation at site for sinking borewells for supplying drinking water to the habitation under through the Hand Pump MWS or P.W.S.S, by vertical electrical sounding by adopting Venner Schlumbergers's method, including reconnaissance survey of geological formation. Geophysical investigation of existing ground water in the vicinity, its quality, quantity and acceptability of the users, indicating the location of the site, recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 metre in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instruments and accessories to work site, engaging technical personal and labour required etc. NOTE: 1) Additional rate on item 1&2 is allowed for drilling in over burden and fixing Casing pipes beyond 20 M (for fixing Casing pipes only) a) Above 20 M and upto 30 M - 15%, b) Above 30 M - 30% (Measurement of overburden is restricted to the depth of casing pipe fixed excluding initial depth of 20M and projection above ground level). 2) A sum of Rs. 100/- is to be deducted for Dry Borewell towards yield test.									
SR 2021-22 Volume IV P.No 152 I.NO 4 S no O040A									
RR Nagara			22						
		No	22				22.00	5141.00	113102.00
Sinking of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burdern upto 20 m. Fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicle, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (Excluding cost of casing pipes, collars, cap etc., complete)									
SR 2021-22 Volume IV P.No 152 I.NO 1 S no O010 ABCDEFGHI									
0 to 50 m		Rmt	22	50.00			1100.00	347.00	381700.00
50 to 100 m		Rmt	22	50.00			1100.00	442.00	486200.00
100 to 150 m		Rmt	22	50.00			1100.00	456.00	501600.00
150 to 200 m		Rmt	22	50.00			1100.00	536.00	589600.00
200 to 250 m		Rmt	22	50.00			1100.00	634.00	697400.00
250 to 300 m		Rmt	22	50.00			1100.00	700.00	770000.00
300 to 350 m		Rmt	22	50.00			1100.00	825.00	907500.00
350 to 400 m		Rmt	22	50.00			1100.00	900.00	990000.00
400 to 420 m		Rmt	22	20.00			440.00	1129.00	496760.00
Providing and fixing **250mm dia PVC (casing pipe)** (page no.XXXI, SL no.909) (KPWD SR 2016-17)									
		Rmt	44	6.00			264.00	2600.00	686400.00
Supply of ISI mark 175mm nominal bore,plain and steel casing pipe grade of steel Fe 410 of wall thickness conforming to IS 4270-2001 and latest ammendments, electrical resistance welded steel tubes, material and conforming to IS 1387-1993 and manufactured by basic open hearth electric or basic oxygen process in random length of 5-7m both ends.threaded conforming to IS 554-1985 one end fixed with socket conforming to IS 4270-2001 and the other end with screwed pipes all shall be responsibaly free from defects. The tubes shall be responsible straight end should be with ISI marking weighing 25.10kg/m.prices include Collar-Medium duty.									
SR 2021-22 Volume IV P.No 154 I.NO 32 S no O160A									
		Rmt	22	50.00			1100.00	1933.00	2126300.00
Providing and fixing MS casing collars as per IS 1239 (part-II) 1982 with all latest amendments if any for any dia. The thickness of plate used for covering one end shall be 3mm (minimum). The dimensions of caps and colars shall be strictly as per IS 1239 (Part-II) 1982 with all amendments									
SR 2021-22 Volume IV P.No 154 I.NO 33 S no O170A									
		Each	183				183.33	150.00	27500.00
Providing **175mm dia Bore Cap** CE (M)									
PRED SR 2012-13 (P.No.iii,I.No.85)									

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Description of work	Unit	Nos	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
		No	22				22.00	100.00	2200.00
Alalanta suguna CRI KIRLOSKAR and other equipments pumps 10.00 HP/7.5 KV (20 stage)									
(Pg No. XLI. Sl.no.29) KPWD SR-2018-19									
		No	22				22.00	49955.00	1099010.00
Providing and fixing in trenches galvinised/mild steel tube 50mm dia nominal bore with all fittings (earth work in trenches to be measured and paid for seperately) including cost of all materials, labour charges,HOM of equipment and testing complete as per specifications. Specification No. KBS 13.2.14/13.6 (page no.92/It no.13.15)KPWD SR 2018-19.									
(Pg No. XLI. Sl.no.29) KPWD SR-2018-19									
Basic rate		388.00							
A.W @ 6%		23.28							
Total		411.28							
		Rmt	22	345.00			7590.00	411.28	3121615.00
Supplying and drawing 3 core flat PVC sheathed submersible pump cable maufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to table 3 class 5 to IS 8130-1984 and virgin grade PVC insulation and power coating extruded PVC sheathed suitable for working voltage upto 1100 volts with specified IS 694:1990 and confirming to the attwached GTP of group A 3CX4.0 sq.mm									
(PWD Ele SR 2014-15,P-12/It-2.10.3)									
Add 5mts for Switching		Rmt	44	350.00			15400.00	126.70	1951180.00
Providing and fixing in position 50mm Nominal bore non-return valve vertical type of approved make including cost of all materials,labour and HOM of equipment with all leads complete as per specifications.(PWD SR 18-19,P-95/It no.13.62)									
Basic rate		1269							
A.W @ 6%		76.14							
Total		1345.14							
		No	22				22.00	1345.14	29593.00
Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :									
SR 2021-22 Volume II P.No 117 I.No 13.10.6									
Basic rate		543							
A.W @ 10%		54.3							
Total		597.3							
		No	22				22.00	597.30	13141.00
Spplying and fixing 50mm GI Elbow.									
(PWD SR 2018-19,P-XXXIX)									
		No	22				22.00	111.80	2460.00
Spplying and fixing 50mm GI Nipple									
(PWD SR 2018-19,P-XXXIX)									
		No	22				22.00	104.30	2295.00
Spplying and fixing 50mm GI Hose colleres									
(PWD SR 2018-19,P-XXXIX)									
		No	1276				1276.00	103.00	131428.00
Supplying and fixing 20" x 20" x 2.5" polished wood board made of not less than 15mm thick plank on both the sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc.,									
KPWD ELE SR 2019-20 P.no.44 / I no. 6.6.6									
		No	22				22.00	302.00	6644.00
Supplying and fixing miniature circuit breakers on existing MCB distribution board using necessary fixing materials and 'C' type curve indicator ON/OFF energy cross-3 with short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.(PWD Ele SR 2022-23 ,P-13/Sl no.5.17.7) 6-32 A TPN									
		No	22				22.00	1777.00	39094.00
Supplying of TPST with rewirable porcelain channels in SM encloser made out of 14 SWG powder coated point of approved colour 32 amps (PWD Ele SR 2022-23,P-10,It-5.5.1)									
		No	22				22.00	1944.00	42768.00
Supplying and fixing LED type panel board indicating lamp with required colour suitable for 220 V AC 50 HZ 12/24 V DC(PWD Ele SR 2022-23 P-14,Sl no.5.38)									
		No	22				22.00	464.00	10208.00
Suppling fully automatic star delta starter unit push button type with suitable wires 2 conductors and adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 volts phase and wired after fixing to the existing wooden board for motor. upto 12.5HP(PWD Ele SR									

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Description of work	Unit	Nos	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
		No	22				22.00	6912.00	152064.00
Supplying and fixing single phase preventer using necessary wires over an existing panel board suitable for motar up to 20 HP capacities.(PWD Ele SR 2022-23,p-10/Sl no.5.3)									
		No	22				22.00	805.00	17710.00
Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade multistrand copper conductor single core wire in open or concealed system of wiring as per IS 694:1990 & conforming to the attached GTP of group A. 4 sqmm (PWD Ele SR 2019-20,p-3,It-2.3.4(d)									
		Mtrs	22	20.00			440.00	59.00	25960.00
Supplying fixing and wiring heavy duty low voltage capacitors conforming to IS 2834 phase 400/440 volts grade, for power factor improvement of rotating machinery.(PWD Ele SR 2022-23 ,p-14/Sl no.5.37)									
		No	88				88.00	432.00	38016.00
Supplying, fixing, wiring, earth electrode for grounding conduits, I.C cotouts and other equipments on the meter board using 40mm dia 2.90 thick GI pipe 2.5 mtr long buried in a pit... The pit should be filled with equal proprotion of salt and charcoal 150mm alround the pipe to complete depth. The connection from the to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia (PWD Ele SR 2019-20,p-40,Sl no.6.1)									
		No	22				22.00	2999.70	65993.00
Digging of trench of 0.36mtrs deepx0.5 mtrs wide refilling the trench to the required gorund level and consolidating etc., complete (PWD Ele SR 2019-20,p-41,It-6.6.2) hard soil									
		Mtrs	22	8.00			176.00	102.00	17952.00
Supplying laying 1.1 KV class LT UG cable having aluminium conductor PVC insulated extruded inner shethed galvanised steel strip (excep 2cx 10 sqmm wire armoured) confirming to IS-3975:1990 (No. of strip indicated in GTP) and extruded PVC outer sheathed armoured cable with specified IS-1554,part-1:1988 and confirming to the attached GTP of group A 4 core 16 sq mm PWD Ele SR 2019-20,p-40,It-6.4.4)									
		Mtrs	22	10.00			220.00	150.00	33000.00
Labour charge for laying 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe/ on wall / on poles as required in existing trench/duct. 6 sq mm to 16 sq mm(PWD Ele SR 2019-20,p-41,It-6.5.1)									
		No	22	25.00			550.00	11.88	6534.00
Supplying and fixing class-A(medium duty) GI pipe wall thickness not less then 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1KV class 40mm(PWD Ele SR 2019-20,p-41,It-6.9.1)									
		Rmt	22	2.00			44.00	335.00	14740.00
Supplying and fixing LT cast iron pot heads suitable for 1.1KV class UG cable filled with necessary bitumen / insulating compound complete with terminals,clamps bolts and nuts and washer etc.,complete for 16 sq mm as per specifications.(PWD Ele SR 2019-20,p-42,It-6.10.2)									
		No	22				22.00	270.00	5940.00
Supplying and fixing porcelain fuse channel with cut out on the existing wooden block and wiring complete 63 amps(PWD Ele SR 2019-20,p-10,It-5.7.3)									
		No	66				66.00	372.00	24552.00
Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 m3 in volume and stock piling at designated locations and disposal of dismantled materials and stacking serviceable and unserviceable materials separately									
PWD SR 2021-22 Volume III P.No 10 I.No 2.19									
Basic rate		422.00							
A.W @ 10%		42.2							
Total		**464.2**							
Borewell									
Water line		Cum	22	272	0.45	0.15	403.92		
							403.92	464.2	187500.00
Earth work excavation for pipeline trenches in all kinds of by mechanical means above 600 mm trench width as per drawing and technical specifications, including setting out, construction of shoring, strutting, barricading, caution lights, bracing, using sight rails & bonding rods at every 100 mm whevere necessary as directed, removal of slumps and other deleterious matter, dressing of sides and levelling the bottom of trench to the extent required , utilising the available excavated earth locally for the work and all other appurtenances to complete in the following strata.									
PWD SR 2021-22 Volume I P.No 10 I.No 1.19.1									

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Description of work	Unit	Nos	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
A.W @ 10%		34.2							
Total		376.2							
Borewell									
Water line		Cum	22	272	0.45	0.40	1077.12		
							1077.12	376.2	405213.00
Providing and fixing **Chorinated Poly Venyl Chloride (CPVC) pipes** conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete. (external work) - **50mm nominal** OD pipes (KPWD SR 2018-19, P-99, It-13.87.6)									
PWD SR 2021-22 Volume II P.No 8 I.No : 13.33.6									
1st Corrigendum and Addendum order - 21-04-2022									
Basic rate		702.00							
A.W @ 10%		70.2							
Total		772.20							
Borewell									
Water line		Mtr	22	272			5984.00		
							5984.00	772.2	4620845.00
Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete : 25 to 40 mm nominal bore									
PWD SR 2021-22 Volume II P.No 115 I.No 13.1.1									
Basic rate		471.00							
A.W @ 10%		47.1							
Total		518.1							
Water line		Each	598.4				598.40	518.1	310031.00
Providing and fixing **Chorinated Poly Venyl Chloride (CPVC) pipes** conforming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling & testing of joints complete. (external work). - **20mm nominal** OD pipes (KPWD SR 2018-19, P-98, It-13.85.2)									
PWD SR 2021-22 Volume II P.No 8 I.No : 13.33.20									
1st Corrigendum and Addendum order - 21-04-2022									
Basic rate		215.00							
A.W @ 10%		21.5							
Total		**236.5**							
Tap Connection			22	10.00			220.00		
							220.00	236.5	52030.00
Providing and fixing to wall, ceiling and floor **Medium density polyethylene pipes** 6.00 kgf/sq.cm working pressure **25mm outside diameter** with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No.KBS 13.2.15.1 / 13.9 (KPWD SR 2018-19, P-95, It-13.67)									
Basic rate		129.00							
A.W @ 6%		7.74							
Total		**136.74**							
for other Purposes		Mtr	22	125.00			2750.00		
							2750.00	136.74	376035.00
Refilling available earth around trenches/pipelines, cables in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with a lead upto 50 m , and lift upto 1.5 m. Including cost of all labour complete as per specifications									
PWD SR 2021-22 Volume I P.No 7 I.No 1.10									
Basic rate		122.00							
A.W @ 10%		12.2							
Total		**134.2**							
70% of Qty Vide item		Cum					753.98	134.2	101185.00
Loading and unloading of stone boulder/stone aggregates/sand/kanker/ moorum. KSRRB M100-1:Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (KPWD SR 2018-19,P-136, it.17.1)									
Item No:-17.1 Loading		57.00							
Conveying for 16km		40.96							
Total		97.96							
Balance Qty Vide item No. 30+ 30% of 31 item		Cum					727.06		
							727.06	97.96	71222.00
Providing and fixing Brass full way valve gate with C.I. wheel of approved quality (screwed end) 65									

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Description of work	Unit	Nos	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
PWD SR 2021-22 Volume II P.No 115 I.No :13.4.5									
Basic rate		1390.00							
A.W @ 10%		139							
Total		1529							
For Main Line	Each		22				22.00	1529	33638.00
Providing and fixing brass stop cock of approved quality :									
PWD SR 2021-22 Volume II P.No 115 I.No :13.3.1									
Basic rate		326.00							
A.W @ 10%		32.6							
Total		358.6							
Tap Connection	Each		598.4				598.4		
							598.40	358.6	214586.00
Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10) Using 20 mm nominal size graded crushed coarse aggregates									
PWD SR 2021-22 Volume I P.No 15 I.No :2.1.4									
Basic rate		5926.0							
A.W @ 10%		592.6							
Total		6518.6							
Borewell									
Water line									
	Cum		22	272	0.45	0.15	403.92		
BESCOM deposit Charges and miscellaneous									
							403.92	6518.6	2632993.00
For Asphalt Road	No	22.00					22.00	12000.00	264000.00
Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work.(Page No.8, I.No. 1.12 of Vol-1 CSR 2021-22). In all kinds of soils upto 300 mm depth									
New Asphalt Rd									
Kengunte		Cum							
W0654 Hospital Road									
W0722			1	283.50	6.10	0.25	432.34		
W0841			1	86.30	5.00	0.25	107.88		
W0747			1	190.00	4.80	0.25	228.00		
KK LAYOUT			1	50.00	5.00	0.25	62.50		
W0598									
W0673			1	250.00	6.20	0.25	387.50		
W0602			1	150.00	5.80	0.25	217.50		
W0665			1	144.00	6.00	0.25	216.00		
MALLATHALLI			1	48.00	5.80	0.25	69.60		
W0820									
W0700			1	60.00	5.20	0.25	78.00		
W0971			1	61.00	5.10	0.25	77.78		
Cross Rd			1	148.00	5.80	0.25	214.60		
			1	123.00	5.50	0.25	169.13		
							2260.81	161.10	364216.89
	65.00								
	89.60								
Area Wieght age @ 10%	6.50								
Total Rate in Rs	161.10								
Construction of Granular Sub-Base of required grading as per design mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per clause 401. Granular Sub-BasePlant Mix Method. Materia.Item No.4.1(V),Page No.19, Vol III SR-21-22									
New Asphalt Rd		Cum							

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Description of work	Unit	Nos	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
W0722			1	86.30	5.00	0.15	64.73		
W0841			1	190.00	4.80	0.15	136.80		
W0747			1	50.00	5.00	0.15	37.50		
KK LAYOUT									
W0598			1	250.00	6.20	0.15	232.50		
W0673			1	150.00	5.80	0.15	130.50		
W0602			1	144.00	6.00	0.15	129.60		
W0665			1	48.00	5.80	0.15	41.76		
MALLATHALLI									
W0820			1	60.00	5.20	0.15	46.80		
W0700			1	61.00	5.10	0.15	46.67		
W0971			1	148.00	5.80	0.15	128.76		
Cross Rd			1	123.00	5.50	0.15	101.48		
							1356.49	2581.70	3502043.78
Basic rate	2347.00								
Area Wieght age @ 10%	234.70								
Total Rate in Rs	2581.70								
Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density. Wet Mix Macadam (Plant mix method) (Page No.24, I.No. 4.27 of Vol-3 SR 2021-22).									
		Cum							
New Asphalt Rd									
W0654 Hospital Road			1	283.50	6.10	0.175	302.64		
W0722			1	86.30	5.00	0.175	75.51		
W0841			1	190.00	4.80	0.175	159.60		
W0747			1	50.00	5.00	0.175	43.75		
KK LAYOUT									
W0598			1	250.00	6.20	0.175	271.25		
W0673			1	150.00	5.80	0.175	152.25		
W0602			1	144.00	6.00	0.175	151.20		
W0665			1	48.00	5.80	0.175	48.72		
MALLATHALLI									
W0820			1	60.00	5.20	0.175	54.60		
W0700			1	61.00	5.10	0.175	54.44		
W0971			1	148.00	5.80	0.175	150.22		
Cross Rd			1	123.00	5.50	0.175	118.39		
							1582.57	2633.40	4167536.55
Basic rate	2394.00								
Area Wieght age @ 10%	239.40								
Total Rate in Rs	2633.40								
Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means. (Page No.29, I.No. 5.1 of Vol-3 SR 2021-22).Issue Rate 07/07/2022									
		Sqm							
New Asphalt Rd									
W0654 Hospital Road			1	283.50	6.10		1729.35		
W0722			1	86.30	5.00		431.50		
W0841			1	190.00	4.80		912.00		
W0747			1	50.00	5.00		250.00		
KK LAYOUT									
W0598			1	250.00	6.20		1550.00		
W0673			1	150.00	5.80		870.00		
W0602			1	144.00	6.00		864.00		
W0665			1	48.00	5.80		278.40		
MALLATHALLI									

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Description of work	Unit	Nos	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
W0820			1	60.00	5.20		312.00		
W0700			1	61.00	5.10		311.10		
W0971			1	148.00	5.80		858.40		
Cross Rd			1	123.00	5.50		676.50		
							9043.25	46.20	417798.15
Basic rate	42.00								
Area Wieght age @ 10%	4.20								
Total Rate in Rs	46.20								
Bituminous Macadam Grading - II for traffic <20 MSA Providing and laying Bituminous Macadam with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading premixed with bituminous binder VG-30 @ 3.4% by weight of mix, transported to site, laid over a previously prepared surface with mechanical paver finisher to the required grade, level and alignment and rolled as per clauses 501.6 and 501.7 to achieve the desired compaction (Page No.31, I.No. 5.8 C of Vol-3 SR 2021-22).Issue Rate 07/07/2022									
		Cum							
New Asphalt Rd									
W0654 Hospital Road			1	283.50	6.10	0.05	86.47		
W0722			1	86.30	5.00	0.05	21.58		
W0841			1	190.00	4.80	0.05	45.60		
W0747			1	50.00	5.00	0.05	12.50		
KK LAYOUT									
W0598			1	250.00	6.20	0.05	77.50		
W0673			1	150.00	5.80	0.05	43.50		
W0602			1	144.00	6.00	0.05	43.20		
W0665			1	48.00	5.80	0.05	13.92		
MALLATHALLI									
W0820			1	60.00	5.20	0.05	15.60		
W0700			1	61.00	5.10	0.05	15.56		
W0971			1	148.00	5.80	0.05	42.92		
Cross Rd			1	123.00	5.50	0.05	33.83		
							452.16	8104.80	3664686.63
Basic rate	7368.00								
Area Wieght age @ 10%	736.80								
Total Rate in Rs	8104.80								
Providing and applying tack coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.20 kg/m2 on the prepared bituminous surface cleaned with mechanical broom(Page No.29, I.No. 5.3 of Vol-3 SR 2021-22).									
		Sqm							
New Asphalt Rd									
W0654 Hospital Road			1	283.50	6.10		1729.35		
W0722			1	86.30	5.00		431.50		
W0841			1	190.00	4.80		912.00		
W0747			1	50.00	5.00		250.00		
KK LAYOUT									
W0598			1	250.00	6.20		1550.00		
W0673			1	150.00	5.80		870.00		
W0602			1	144.00	6.00		864.00		
W0665			1	48.00	5.80		278.40		
MALLATHALLI									
W0820			1	60.00	5.20		312.00		
W0700			1	61.00	5.10		311.10		
W0971			1	148.00	5.80		858.40		
Cross Rd			1	123.00	5.50		676.50		
							9043.25	13.20	119370.90
Basic rate	12.00								

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Description of work	Unit	Nos	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
Total Rate in Rs	13.20								
Bituminous Concrete Grading II for traffic <20 MSA Providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 per cent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specificationclause No. 507 complete in all respects(Page No 36, I.No.5.16 C of Vol-3 SR 2021-22).Issue Rate 07/07/2022									
		Sqm							
New Asphalt Rd									
W0654 Hospital Road			1	283.50	6.10	0.04	69.17		
W0722			1	86.30	5.00	0.04	17.26		
W0841			1	190.00	4.80	0.04	36.48		
W0747			1	50.00	5.00	0.04	10.00		
KK LAYOUT									
W0598			1	250.00	6.20	0.04	62.00		
W0673			1	150.00	5.80	0.04	34.80		
W0602			1	144.00	6.00	0.04	34.56		
W0665			1	48.00	5.80	0.04	11.14		
MALLATHALLI									
W0820			1	60.00	5.20	0.04	12.48		
W0700			1	61.00	5.10	0.04	12.44		
W0971			1	148.00	5.80	0.04	34.34		
Cross Rd			1	123.00	5.50	0.04	27.06		
							361.73	11672.10	4222148.73
Basic rate	10611.00								
Area Wieght age @ 10%	1061.10								
Total Rate in Rs	11672.10								
Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous SurfaceProviding and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from streaks and holes(Page No.57, I.No. 8.15 of Vol-3 SR 2021-22).									
Road Marking		Sqm							
New Asphalt Rd									
W0654 Hospital Road			2	283.50	0.10		56.70		
W0722			2	86.30	0.10		17.26		
W0841			2	190.00	0.10		38.00		
W0747			2	50.00	0.10		10.00		
KK LAYOUT			2	0.00	0.10		0.00		
W0598			2	250.00	0.10		50.00		
W0673			2	150.00	0.10		30.00		
W0602			2	144.00	0.10		28.80		
W0665			2	48.00	0.10		9.60		
MALLATHALLI									
W0820			2	60.00	0.10		12.00		
W0700			2	61.00	0.10		12.20		
W0971			2	148.00	0.10		29.60		
Cross Rd			2	123.00	0.10		24.60		
							318.76	525.80	167604.01
Basic rate	478.00								
Area Wieght age @ 10%	47.80								
Total Rate in Rs	525.80								
								Construction Total Amount	4,15,22,842.64
								Add GST Charges 18%	74,74,111.68

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Description of work	Unit	Nos	Nos	Dimenstions in m			Quantity	Rate in Rs.	Amount in Rs.
				L in m	B in m	D in m			
								Sub Total	4,99,96,954.32
								Miscellaneous and unforeseen charges etc.L.S	3,045.68
								Grand Total	5,00,00,000.00

Certificate:

1. The work spot has been inspected and found to be necessary
2. The provisions made in the estimate are necessary and minimum
3. The estimate is based on CSR of 2021-22 of Issue Rates on 07.04.2022

Assistant Engineer

Ward No 73

Assistant Executive Engineer

Laggere Sub Division

Executive Engineer

RR Nagara Division

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Name of Work : Comprehensive Development of Roads & Drains in Prem Nagara, Chowdeshwari Nagar, Kottigepalya Village in ward no [illegible] Kottigepalya and Drilling of Borewells, Providing Water Supply in Kebbehalla, kengunte, Mallathahalli and Surrounding areas in W No.129 under PACKAGE- 2022-23 RRN-DIV-(11).

Sl. No	Description	Unit	38	39	54	Total Quantity	Rates In Rupees	Amount Rs.
1	Removing and refixing stone slabs of drains and pointing in CM (1:3)	Sqm	4923.32			4923.32	121.00	595721.12
2	Removing And resetting of kerb stones	Mtr	1695.38			1695.38	118.00	200054.48
3	Earth work excavation by manual means for drains,canals, waste weir draft, approach channels, key trench, foundation of Bridges and such similar works, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, excavated surface leveled and sides neatly dressed disposing off or leveling the Excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift	Cum	1480.43			1480.43	410.86	608247.42
4	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances	Cum	30.43			30.43	6327.20	192511.39
5	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes	Cum	58.09			58.09	7225.68	419710.85
6	Providing Thermo-Mechanically Treated bars of grade Fe-500D or more Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position, binding and anchoring to adjacent members whereever necessary complete as per Design including cost of material, labour, usage charges complete as per specifications. (The laps and wastages shall not be measured separately)(Vol-II, P.No-84, I.No-11.32-SRB-2021-	Ton	3775.59			3775.59	116.60	440233.79
7	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing, and all the other appurtenances	Cum	4.91			4.91	5900.40	28994.57
8	Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand)(VOL-II,P.No-9, I.No.5.4-SRB-2021-22)	cum	16.51			16.51	5964.20	98480.87
9	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x150x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications)(VOL-II,P.No-17, I.No.6.33-	Sqm	1557.90			1557.90	1173.70	1828507.23
10	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances	Sqm	108.81			108.81	6518.60	709257.28

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10	foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances	Sqm	108.81			108.81	6518.60	7092.28
11	21.10-Providing ruled pointing to cursed stone masonry with lime mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost all materials, labour, usage charges of machinery, curing complete as pre specification.(VOL-II,P.No-190, I.No.21.10-SRB-2021-22)	Sqm	32.32			32.32	261.80	8461.38
12	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances	Cum	82.20			82.20	6281.56	516367.79
13	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete.- do - 7.5 cms thick (P-27/5.31.1) PWD SR 2018-19	Sqm	1969.33			1969.33	742.00	1461239.89
14	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete.- do - 10 cms thick (P-27/5.31.2) PWD SR 2018-19	Sqm	1312.88			1312.88	837.00	1098883.91
15	KSRB 5-8.1 ; Providing one line dressing to granite stone slab / granite stone masonry as per specifications. KBS 5.1.13 (P-26/5.17) PWD SR 2018-19	Sqm	1312.88			1312.88	242.00	317717.93
16	Machine Cutting to granite stone slabs edge all four sides to get plain even surface. (Approved Data rate)	m	7293.00			7293.00	390.00	2844270.00
17	Providing & laying precast drain cover slab of 100 mm thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(0.90 x 0.60 x 0.10) (Approved Data rate)	Sqm	210.60			210.60	2072.00	436363.20
18	Providing & laying precast drain cover slab of 250 mm thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(1.2 x 0.60 x 0.25) (Approved Data rate)	sqm	32.76			32.76	5037.00	165012.12
19	Providing and fixing pre cast solid concrete kerb stones of size 450x150x500 mm made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc., complete.Page No. 27/ Item No. 5.29.2/ PWD SR 2018-19	No's	5222.62			5222.62	507.00	2647866.05
20	Painting Two Coats on New Concrete Surfaces Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces MORTH Specification No.803 Page No. 56/ Item No.8.10/ Vol-3 R&B SR 2021-22	Sqm	1618.22			1618.22	93.50	151303.72

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21	Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces disposing off or levelling the excavated earth or	cum	564.30			564.30	339.06	191337.56
22	Loosening, leveling and Compacting original ground supporting embankment to facilitate placement of first layer of embankment, scarified to a depth of 150 mm, mixed with water at OMC and then compacted by rolling so as to achieve minimum dry density as given in Table 300-2 for embankment construction complete as per specifications. MORTH Specification No. 305.3.4(P.No.14) No. 3.7 of Vol-3 PWD SR 2021-22)	Sqm	3762.00			3762.00	95.70	360023.40
23	Construction of Dry lean cement concrete sub-base over a prepared sub grade with coarse and fine aggregates confirming to IS 383:2016 the size of coarse aggregates not exceeding 25mm replacing cement by fly ash to the extent of 20 percent, aggregate cement ratio not to exceed 15:1 aggregates gradation after blending to be as per table 600-1, cement content not to be less than 129 kg /m3 optimum moisture content to be determined during	Cum	564.30			564.30	4615.60	2604583.08
24	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design laid in approved fixed side	Cum	564.30			564.30	7334.80	4139027.64
25	Geophysical investigation at site for sinking borewells for supplying drinking water to the habitation either through the Hand Pump MWS or P.W.S.S, by vertical electrical sounding by adopting Venner or Schlumbergers's method, including reconnaissance survey of geological formation. Geophysical investigation of existing ground water in the vicinity, its quality, quantity and acceptability of the users, indicating the location of the site	Each	1.00			1.00	5141.00	5141.00
26	Sinking of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burdern upto 20 m. Fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicle, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor							
	a) 0.00 to 50.00 mts	Rmt	50.00			50.00	347.00	17350.00
	b) 50.00 to 100.00 mts	Rmt	50.00			50.00	442.00	22100.00
	c) 100.00 to 150.00 mts	Rmt	50.00			50.00	456.00	22800.00
	d) 150.00 to 200.00 mts	Rmt	50.00			50.00	536.00	26800.00
	e) 200.00 to 250.00 mts	Rmt	50.00			50.00	634.00	31700.00

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27	Supply of ISI mark 175mm nominal bore,plain and steel casing pipe grade of steel Fe 410 of wall thickness conforming to IS 4270-2001 and latest ammendments, electrical resistance welded steel tubes	Rmt	60.00			60.00	1933.00	115980.00
28	Supply and fixing Borewell cap and clamp set Page No XL VIII, Sl PWD SR 2018-19.	Each	1.00			1.00	1800.00	1800.00
29	Prviding nd fixing 200 mm dia 6 kgs/cm PVC pipe (PRED SR 14-15 P-III No: 86	Rmtr	15.00			15.00	2600.00	39000.00
30	Supply and delivery at site brand new CRI/Texmo/Atlanta/Luby/Suguna make or any equivalent ISI make suitable for vertical installation in 150 mm bore ells comprising of single stage or multistage CF pump closed by mens of sainless steel coumpling to suitable HP, suitable speed totally enclosed and fitted with pure drinking water (wet type) squirrel cage submersible indevtion motor suitable for operationof 3 PH 50Hz 380/440 volts AC	No	1.00			1.00	78036.00	78036.00
31	KSRB 13.3.6 Providing and fixing to wall, ceiling and floor galvanised / mild steel tube 50mm ia nominal bore with fittings (medium grade weight 1.27 Kg/mtr) B class including cost of all materials, labour charges, HOM of equipment and testing complete as per specifications. Specification No. KBS 13.2.14/13.8 (P-93, It.13.16, PWD SR:2018-19)	Rmt	262.00			262.00	525.76	137749.12
32	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper conductor cofirming to table 3 class 5 to IS 8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100 volts with specified IS 694:1990 and confirming to the attwached GTP of Group A 3C x 6.0 Sq mm PWD SR 2018-19 Page : XLVII Item: 9	Mtr	360.00			360.00	220.00	79200.00
33	Labour charges for Errection of pumpset including aligning and balancing with all necessary erection materials and labour including supply and erection of one pair of supporting clams, borewell cap, cable clips with bolts, nuts, valve gauges etc., involved in the job. (Necessary G.I.Pipe and specials will be supplied by the board at the site free of cost)and released pumpset should be handed over to department including transportation	Length	43.66			43.66	92.00	4016.72
34	Supplying and fixing 50mm heavy duty GI Collars. (PWD SR 2018-19, P-XLVII), ITEM :2 (Accessories of pump set).	Nos	35.00			35.00	180.00	6300.00
35	Providing and fixing in position 50mm Nominal bore non- return valve vertical type of approved make including cost of all materials, labour and HOM of equipment with all leads compleate as per specification.(PWD SR 2018-19, P-XLVII, It-16) under Accessories of pump set	Nos	1.00			1.00	1800.00	1800.00
36	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :SR 2021-22 Volume II P.No 117 I.No 13.10.6	Nos	1.00			1.00	543.00	543.00
37	Supplying and fixing 50mm GI Nipple (PWD SR 2018-19,P-XXXIX)	Nos	3.00			3.00	104.30	312.90

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38		Nos	3.00			3.00	124.00	372.00	
39	Supplying of on load charges over switches 4 poles, 415V 5 Hr Ac supply 100-125 amps Group A (BWSSB SR Rate P No.3481, It No. II Group A)	Nos	1.00			1.00	9845.00	9845.00	
40	Supplying and fully automatic star-delta unit push button type with suitable wires, 3 contactosr, one adjustable thermal timer mounted on a common base late held in steel enclosure for use on 440/440 volts 3 phase and wired after to the existing wooden board for motor 12.5 HP (BWSSB SR P No.335, It No.10(A)	Nos	1.00			1.00	5665.00	5665.00	
41	Erection of single phase preventer / ammeters / including fixing selector switch / voltmeter / current operated earth leakage circuit breakers / voltage operated circuit breaker / above 100A fuse channel set (3 Nos) HRC fuses above100A (3 Nos.) / Digital ammeter/digital volt meter/set of3 indicating lA /MCB / Relays /A-V selector switches including wiring using suitable capacity wires, bolts, nuts, screws (P-46, It No.13.16 ELE	LENGTH	1.00			1.00	162.00	162.00	
42	Out door Panel board upto 20 HP (PWD SR PG -XLVII item- 13)	Nos	1.00			1.00	21000.00	21000.00	
43	Supplying & fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 50-63 A SP (ELE SR-2021-22, P-13, It No.5.17.3)	Nos	1.00			1.00	734.00	734.00	
44	Supplying andrunning of GI copper strip or grounding connection using necessary fixing material required 600x600c3mm GI plate (P-378, It9(E)	Nos	1.00			1.00	1072.00	1072.00	
45	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers. (ELE SR 2021-22, P NO 10,I No. 5.7.2	Nos	3.00			3.00	200.00	600.00	
46	Fabricating supplying and mounting MS box made out ....SWG suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clA with necessary cable entry pipe with gland and box should be finished with 7tanks treatment with powder coated paint and finally finished with approved colour etc	cms	30400.00			30400.00	0.38	11552.00	
47	Providing and fixing Brass full way valve gate with C.I. wheel of approved quality (screwed end) 50mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete s per specifications. Specification No.KBS 13.2.6/ 13.3 (VOL-2 PWD SR 2021-22 P-115, It.No.13.4.4)	Nos	1.00			1.00	917.40	917.40	
48	Supplying and laying of L.T.U.G cable having aluminium conductor PVC insulated shethed galvanised steel wire/steel tape armoured cable with PVC outer sheathing 1.1 KV class 4 core 16 Sqmm PVC cable (KPWD Elec SR 2010-11, P-No 68 & 69/No 4-1 d)	Mtr	28.00			28.00	140.00	3920.00	

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49	[illegible]	Mts	28.00			28.00	10.80	302.40
50	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating in Hard soil etc., complete. complete as per specifications and direction of the Engineer-in-Charge (KPWD Electrical SR 2010-11)P-70 Item - 10b	Mtr	150.00			150.00	106.00	15900.00
51	Supplying and fixing Class-A (Medium duty) -GI pipe wall thickness not less than 3.25mm on pole/wall/Drain crossing with necessary clamping arrangements for UG Cable of 1.1 KV class 40mm (KPWD Ele SR 2010-11 P -70/N0 9 a	Mtr	18.00			18.00	345.00	6210.00
52	Supplying and fixing LT cast iron pot heads suitable for 1.1 KV class UG cable filled wiith necessary bitumen / insulating compound complete. With terminals, clamps, bolts nuts and washers etc.complete for 16 Sqmm as per specification ((KPWD SR 2018-19, Page XLVII, item No:21 under accessories of pump set installation.	Each	1.00			1.00	360.00	360.00
53	Earth work excavation for pipelines/cables by Manual means upto 600 mm trench width, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, including dressing of excavated surfaces, disposing off or leveling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m. Filling available excavated earth	Cum	52.20			52.20	517.00	26987.40
54	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) 20mm pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, including fixing the pipe and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete(concealed work including cutting chases and good the walls etc (External Work)	Mts	180.00			180.00	772.20	138996.00
55	KSRB13-9 : Providing and fixing to wall, ceiling and floor high density polyethylene pipes 6.00 kgf/sq.cm working pressure of outside diameter raising mains & exposed distribution pipes with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM and testing complete as per specifications Specification No KRS 13.2 15.2 / 13.9 13.71 KSRB13-9.1 - do - 32	Mts	190.00			190.00	210.60	40014.00
56	Refilling available earth around trenches/pipelines, cables in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with a lead upto 50 m , and lift upto 1.5 m. Including cost of all labour complete as per specifications .(P.No 7, I.No. 1.10 of Vol-1 CSR 2021-22)	Cum	44.37			44.37	134.20	5954.45
57	BESCOM charges & KEB Deposit	Nos	1.00			1.00	15000.00	15000.00
58	Spplying, fixing ,wiring, earth electrode for grounding conduits, IC cutouts and other equipments on the meter board using 40mm dia 2.9mm thick GI pipe 2.5 mtr long buried in a pit... the pit should be filled with equal proportion of salt and charcoal 150mm alround the pipe to complete depth. The connectionh from the pipe to the conduit etc, is to be established through GI wire of size as per ISI Specification 7.3.3 of IS 732 using 12mm dia	Nos	1.00			1.00	3000.00	3000.00
59	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead C. Prestressed / Reinforced cement concrete grade M-20 &-above MORTH Specification No	Cum	3.21			3.21	2038.30	6542.94

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60	Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces disposing off or levelling the excavated earth or	Cum	29.55			29.55	298.10	8808.00
61	Earth work excavation for Foundation by mechanical means for all works & depth upto 3 m, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other	Cum	26.93			26.93	299.20	8055.96
62	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances	Cum	4.95			4.95	6518.60	32276.85
63	Cost of howlage including Add loading, unloading item surface road up to 15kms . Loading and unloading charges Pg No.139 BR=668+(1.28*2.50*15) =116	Cum	59.69			59.69	116.00	6923.46
64	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.(Page.25/Item No. 5.6)(PWD SR 2018-19	Cum	5.40			5.40	4963.68	26803.87
65	Providing and laying in position Reinforced cement concrete for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all	Cum	11.65			11.65	7118.10	82923.91
66	Refilling available earth around trenches/pipelines, cables in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with a lead upto 50 m , and lift upto 1.5 m. Including cost of all labour complete as per specifications (Page.35/Item No.1.10) VOL-1 CSR of 2021-22	Cum	19.35			19.35	134.20	2596.10
67	Providing Thermo-Mechanically Treated bars of grade Fe-500D or more Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position, binding and anchoring to adjacent members whereever necessary complete as per Design including cost of material, labour, usage charges complete as per specifications. (The laps and wastages shall not be measured separately)(Vol-II, P.No-84, I.No-11.32, SRB-2021-	Mt	1281.47			1281.47	116.60	149419.37
68	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specificaitons. (Page.16/I.No.4.31) SR of 2018-19	Sqm	32.56			32.56	386.64	12590.35
69	KSRB 4-6.3 : Providing and removing centering, shuttering, strutting, propping etc.,and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness above 200 mm including cost of all materials, labour complete as per specificaiton. Specification No. KBS 4.6.2 (Page.16/Item No.4.30)SR of 2018-19.	Sqm	22.02			22.02	475.20	10461.53
70	KSRB 5-14.1 Providing and constructing precast concrete solid blocks with compressive strength not less than 3.5 Newton per sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x15x20cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding curing complete as per specifications(Page.27/Item No.5.27.2) SR of 2018-19	Sqm	31.09			31.09	1045.72	32511.57

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71	1:4, to ceiling including rounding off corners wherever required smooth rendering. : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications (Page.117/Item 15.22) SR OF 2018-19.	Sqm	16.00			16.00	253.97	4063.56
72	Providing 15 mm cement plaster on the rough side of single or half brick wall of mix 1:4 (1 cement: 4 fine sand) including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. (Pg No-41, I.No-8.2.1, Vol-2 SRB 2021-22)	Sqm	19.68			19.68	278.30	5476.94
73	KSRB 15-15 : Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications (Page.117/I.No.15.16) SR of 2018-19.	Sqm	63.45			63.45	296.44	18807.53
74	Providing and laying in position Reinforced cement concrete for all Foundation works. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticizers laid in finished layers, well compacted using needle vibrators, including all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all	Sqm	11.96			11.96	6854.10	81975.04
75	Providing and fixing Vitrified glazed tiles of approved make, quality and colour of size 600x600x10mm thick fixed on existing flooring with a special adhesive for flooring, skirting and jointed with neat cement slurry mixed with pigment to match shade of tiles, including providing spears at required interval and removing stains etc., complete as per specification (Page.110 /I.No.14.44)SR of 2018-19	Sqm	41.35			41.35	1117.80	46221.03
76	KSRB 7.7 : Providing and fixing in position in cement concrete 1:3:6 steel glazed windows and ventilators side hung/top hung fully openable as per approved drawings using Z angles of 25x33x3mm, weighing 1.419 Kg/m both for outer and inner frames and central mullion section of size 25x46x3mm. weighing 2.28Kg/m duly providing T section 19x19x3mm weighing 0.839 kg/m holdfasts of approved size section should be cut to	Sqm	0.27			0.27	161.70	43.66
77	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs	Sqm	11.13			11.13	2761.00	30729.93
78	KSRB15-7 : Providing lime rendering for plastering to wall and ceiling, including cost of materials, labour, curing complete as per specifications.(Page 117/Item 15.33 SR 2018-19	Sqm	35.68			35.68	34.56	1233.10
79	KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications (Page 120 /Item No.15.53.2) SR 2018-19	Sqm	63.45			63.45	110.16	6989.10
80	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade: One coats on old work as per specifications and as per directions of Engineer in charge. (VOL-2 SR 2021-22 Page.51/Item 8.63)	Sqm	35.68			35.68	68.20	2433.38
81	KSRB 7.15 : Providing, fabricating, assembling and fixing in position anodized aluminium partitions using aluminium sections of mat finish or glassy finish in combination of plain grove, single grove and double grove as per requirements for the frames of overall size 63.5mm x 38.1mm. with thickness of 2mm. having section weight, plain sections 1.054kg/m, single grove thickness 1.95mm, section weight 1.094kg/m, double grove	Sqm	13.45			13.45	3633.12	48865.46

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82	finished with CM 1:3 plastering and finishing cutting etc complete of size 450x200x400 Page No 27 Item No 5.29.1 /PWD SR 2018-19	Nos	125.00			125.00	486.00	60750.00
83	Providing and laying 100 mm thick pre cast cover slabs over drain of width not exceeding 800 mm using M 20 concrete reinforced with steel @ 6.00 kg/sqm slabs jointed in CM 1:3 proporaotion and nicely finished including providing holes in the cover slabs wherever necessary for easy drainage of surface water including of labour materials HOM of machineries curing lead and lift charges etc complete as per MORTH specifications No	MTS	50.00			50.00	1167.48	58374.00
84	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :Two coats on new work after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth cost of materials labour complete as per specifications and as per directions of	Sqm	50.00			50.00	99.00	4950.00
85	KSRB 13-11.1 : Providing and placing on terrace, polyethylene water storage tanks with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per specifications.(For 1000 litre capacity) Specification No KBS 13.22 Page no: 96 Item No 13.78 SR 2018-19	Nos	1.00			1.00	6828.00	6828.00
86	Raw water Feed pump with starter,Type-Horizontal ,Centrifugal.Make-Kirloskar/Beacon weir/Sumo/CNP(SS),Material of Construction-Cast Iron,Head-36 MWC. Motor-3.0HPthree phase.Starter-L&T Siemen make push botton type DOL Starter (Data rate approved)	Nos	1.00			1.00	24500.00	24500.00
87	Multi graded sand filter,type-verticle,Floor Mounted,Make-pentair/structural/ION EXCHANGE(INDIA) LTD/Zeolite/Aquario,min.operating Pressure 2.0kg/cm2,Max. Operating Pressure -3.5kg/cm2, Treatment Flow Rate-6000liters/Hr,Type of valve size-Multiport,50NB,make-UKL/Initiative,Filtering Media -Gravel,Graded Sand & Pebble (Data rate approved)	Nos	1.00			1.00	33000.00	33000.00
88	Activated carbon Filter type-Verticle,Floor Mounted,Make-pentair/Structural/ION EXCHANGE(INDIA) LTD/Zeolite/Aquario,min.operating Pressure 2.0kg/cm2,Max. Operating Pressure -3.5kg/cm2, Treatment Flow Rate-6000liters/Hr,Type of valve size-Multiport,50NB,make-UKL/Initiative,Filtering Media -Gravel, Activated Carbon & pebbles (Data rate approved)	Nos	1.00			1.00	62500.00	62500.00
89	Water Softner,type-Verticle,Floor Mounted,Make-pentair/Structural/ION EXCHANGE(INDIA) LTD/Zeolite/Aquario,min.operating Pressure 2.0kg/cm2,Max. Operating Pressure 3.5kg/cm2, Treatment Flow Rate-6000liters/Hr,Type of Resin INDION 220Na or Thermax T40 (Data rate approved)	Nos	1.00			1.00	62000.00	62000.00
90	Antiscalant Dosing System,Equipment Required-Electronic Dosing Pump with Solution Tank,make-Ion Exchange (I) Ltd.,/ASIA LMI/Zeolite,Material of Construction-PP(Polypropelene),Discharge @Max Back Pressure-2.88litr/Hr @8bar,Discharge@Nominal Back Pressure=3.12Lit/Hr @ 4Bar,Chemical to be dosed-INDION Antiscalant (Data rate approved)	Nos	1.00			1.00	85000.00	85000.00
91	Accessories for Dosing System,Solution Tank-One No,Volume-100Litres,Material of Construction-HDPE,Tank level Switch-One No. (Data rate approved)	Nos	1.00			1.00	42000.00	42000.00
92	Reverse Osmosis System,Type-Horizontal Skid,Floor Mounted,Permeate water-Minimum 2000litr/hr,Maximum Permissable TDS in feed (PPM)-2500.	Nos	1.00			1.00	89000.00	89000.00

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93		Nos	1.00			1.00	85000.00	85000.00	
94	Membrane, Type-Brackish water . Nos required-Three.Make-TORAY JAPAN /Hydranautics/Filmtec/Tricep (Data rate approved)	Nos	1.00			1.00	88000.00	88000.00	
95	High pressure pump,Type- verticle,multistage,Make-GRUNDFOS,MOTOR-7.5 HP 3Phase, Model-CRN series,Material of construction-SS316,starter-L&T/Seimens make push botton type DOL starter (Data rate approved)	Nos	1.00			1.00	55000.00	55000.00	
96	Micron Filter,Type -JUMBO,Material of construction of housing-poly propelene (Data rate approved)	Nos	1.00			1.00	78000.00	78000.00	
97	Instruction, Wet panel -Ms powder coated., Mounted on R.O> skid, Low pressure switch-one No,High Pressure Switch-one, Digitalconductivity Meter wiyh sensor , Indon brand-one No , ON/OFF selector Switch -one No, High pressure System Pressure Gauge - one No, Auto Flush Timer -one No, Indication Lamps -one No, product Flow Meter- one No, Reject Flow Meter-one No Reject Re-circolation Meter-one No Alarm-one No (Data rate	Nos	1.00			1.00	86000.00	86000.00	
98	pH correction dosing System, Equipment Required-Electronic Dosing Pump with solution Tank, Make-Ion Exchange(1) Ltd.,/ASIA LMI/Zeolite,Material of construction -PP, Discharge @ max . Back Pressure-2.88 Lit/Hr@8Bar.Discharge@Nominal Back Pressure-3.12 Lit/Hr@4Bar,Frequency-100 Strokes / Min, Chemical to be dosed-PH Booster (Data rate approved)	Nos	1.00			1.00	83000.00	83000.00	
99	Solution Tank with level switch, Solution Tank-one No, Volume-100 Liters. Material of construction-HDPE. Tank levelswitch-one No	Nos	1.00			1.00	15000.00	15000.00	
100	Inter-connecting pipe work ,Raw water tank to feed pump suction and feed pump delivery to R.O. Inlet (up to High pressure pump in let)and RO outlet to Treated water tank-food Grade PVC pipe 40mm NB, Make-Finolex/ supreme,High pressure pump outlet to membrane inlet-ss pipe of required size, Approximate Length-35.0 Metre (Data rate approved)	Nos	1.00			1.00	78000.00	78000.00	
101	Ultra violet system, Model-UVS-20,Make-Ion Exchange (I) Ltd.,/ASIA LMI/Zeolite,ALFA Flow rate-2000L/H (Data rate approved)	Nos	1.00			1.00	74500.00	74500.00	
102	RO water strong tank, 2000 ltrs SS tank, to store RO water with required nozzles (Data rate approved)	Nos	1.00			1.00	80000.00	80000.00	
103	Wending Machine ,Digital Swiping Card /coin BoxType (Data rate approved)	Nos	1.00			1.00	35000.00	35000.00	

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104	suitable size bends, junction boxes, adhesive paste etc , and fixing using inverted wood plugs in case of RCC ceiling and RCC wall/ stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NB screws 25mm dia 2mm thick (ELE SR	mtr	25.00			25.00	80.00	2000.00	
105	Supplying heavy gauge PVC conduit pipe ..... mm dia.....mm thick confirming to IS 2509 with suitable size bends, metal/PVC Junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary. 25 mm dia 2 mm	mtr	25.00			25.00	70.00	1750.00	
106	Supplying heavy gauge PVC Conduit Pipe .... dia ..... mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering upto the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary. 25 mm dia 2 mm thick (ELE SR 2021-22 Page-1, Item-1.3.2)	Each	20.00			20.00	80.00	1600.00	
107	Supplying and fixing sheet Metal box made out of 18 SWG sheet metal with necessary holes for cable/conduit entry as required with one coat of primer of approved make etc.(ELE SR 2021-22 Page-1, Item-1.4)					0.00		0.00	
	1.4.3) 135x75x65mm	Each	1.00			1.00	131.00	131.00	
	1.4.4) 180x90x65mm	Each	1.00			1.00	155.00	155.00	
	1.4.5) 200x90x65mm	Each	1.00			1.00	169.00	169.00	
108	Supplying and fixing PVC/metal conduit accessories.(3/5) (ELE SR 2021-22 Page-1, Item-1.5)1. Special type junction box 2. Deep junction box	Each				0.00		0.00	
	1.5.2) 25mm junction box	Each	1.00			1.00	51.00	51.00	
	1.5.3) 32mm deep junction box	Each	1.00			1.00	69.00	69.00	
109	Supplying and flush mounting teak wooden box without front plank, made of not less than 12 mm thick wood, after due groove cutting, finishing with necessary cement plastering complete.(ELE SR 2021-22 Page-2, Item-1.6)					0.00		0.00	

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	1.6.2) 12"x9"x3" (300x228x76mm)	Each	5.00			5.00	112.00	560.00
110	Supplying and wiring adopting loop system in existing PVC Conduit /casing capping using 2x1.5mm2 (Phase & Neutral) & 1x1.0 mm2 (Earth wire) FRLS multi strand PVC insulated copper wire (confirming to IS-694: and latest amendments) with a 6A flush type SP control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood /PVC round block complete for Short point up to 3Mtr from tapping point to out let via switchEach point. 2.1.1	Each	5.00			5.00	105.00	525.00
						0.00		0.00
	Medium point above 3Mtr up to 6Mtr from tapping point to out let via switch (Each point) 2.1.2	Each	2.00			2.00	276.00	552.00
111	Supplying and wiring adopting loop system in existing PVC Conduit /casing capping casing capping using 2x1.5mm2 (Phase & Neutral) & 1x1.0 mm2 (Earth wire) FRLS multi strand PVC insulated copper wire (confirming to IS-694: and latest amendments) without control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a Short point up to 3Mtr from tapping point to out let via switch box 2.2.1	Each	2.00			2.00	386.00	772.00
						0.00		0.00
	Medium point above 3Mtr up to 6Mtr from tapping point to out let via switch box. 2.2.2	mtr	2.00			2.00	251.00	502.00
112	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293. (ELE SR 2019-20 Page-5, Item-3.6.3)I. 6Amps 3way socket	mtr	2.00			2.00	361.00	722.00
113	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/dimmer/telephone socket etc on existing modular switch plate..(ELE SR 2021-22 Page-5, Item-3.6)I.Using Group "A" materials	Each	5.00			5.00	162.00	810.00
						0.00		0.00
	3.6.1) 6Amps one way.	Each	2.00			2.00	88.00	176.00

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		Each	2.00			2.00	375.00	750.00
	3.6.11) 6/16Amps universal socket	Each	2.00			2.00	249.00	498.00
114	Supplying and fixing 32A security and energy saving DP switch with key tag suitable to operate on 230 V, 50Hz AC supply & completely wired on existing box. (ELE SR 2021-22 Page-6, Item-3.7)	Each	2.00			2.00	747.00	1494.00
115	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments. (ELE SR 2021-22 Page-3, Item-2.3)					0.00		0.00
	4sqmm. 2.7.1	Mtr	60.00			60.00	59.00	3540.00
	6 sqmm 2.7.2	Mtr	60.00			60.00	87.00	5220.00
	10 sqmm 2.7.3	Mtr	53.00			53.00	157.00	8321.00
116	Supplying and fixing of PVC casing and capping on the wall or ceiling using necessary materials like bends, junction box, elbows, screws at an interval of 300 mm .... etc. as required. 25mm (ELE SR 2021-22) Item-1.8.2 Page-02)	Mtr	10.00			10.00	28.00	280.00
117	Supplying PVC/GI flexible conduit pipe .... mm dia fixing on surface over inverted tapered wooden plugs or phill plugs or rawl plugs and clamped using heavy gauge saddles at an interval of 300 mm using NF screws and on either end of the pipe terminated completely 20mm (ELE SR 2021-22 Page-02, Item-1.9.1)	Mtr	12.00			12.00	25.00	300.00
118	Extra for supplying 4mm thick white plastic plate and covering for junction boxes of size 110mm conduit using necessary machine screws. (ELE SR 2021-22 Page-6, Item 3.10.2)	Nos	12.00			12.00	12.00	144.00
119	Supplying 50mm wooden plug, tapered from 50x50mm to 25x25mm and fixing by using binding wire before concreting a roof slab. (ELE SR 2021-22 Page-6, Item3.11)	Nos	20.00			20.00	8.00	160.00

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120	18778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, including fixing the pipe and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete(concealed work including cutting chases and good the walls etc (PWD SR 2021-	Mtr	25.00			25.00	231.00	5775.00
121	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting &	Cum		1241.60		1241.60	363.56	451396.10
122	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other	cum		188.70		188.70	6327.20	1193942.64
123	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes	Cum		320.79		320.79	7225.68	2317925.89
124	Pupplying, Fitting and Placing TMT Fe 500 & above Reinforcement in Foundation / Substructure / Superstructure complete as per Drawing and Technical Specifications. Item No.9.3 ,Page No.71, Vol III SR 21-22.ISSUE RATE DATE(7-04-2022)	Tonne		19.25		19.25	103724.50	1996426.94
125	Providing & laying precast drain cover slab of 100 mm thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(0.90 x 0.60 x 0.10) (Approved Data rate)	sqm		1132.20		1132.20	2072.00	2345918.40
126	Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting &	Cum		2258.23		2258.23	161.10	363800.05
127	Construction of Granular Sub-Base of required grading as per design mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per clause 401. Granular Sub-BasePlant Mix Method. Materia Item No.4.1(V) Page No.19, Vol III SR-21-22	Cum		1354.94		1354.94	2581.70	3498035.69
128	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density. Wet Mix Macadam (Plant mix method) (Page No.24, I.No. 4.27	Cum		1580.76		1580.76	2633.40	4162766.80
129	Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means. (Page No.29, I.No. 5.1 of Vol-3 SR 2021-22).Issue Rate 07/07/2022	Sqm		9032.90		9032.90	46.20	417319.98
130	Bituminous Macadam Grading - II for traffic <20 MSA Providing and laying Bituminous Macadam with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading premixed with bituminous binder VG-30 @ 3.4% by weight of mix, transported to site, laid over a previously prepared surface with mechanical paver finisher to the required grade, level and alignment and rolled as per clauses 501.6 and 501.7 to achieve	Cum		451.65		451.65	8104.80	3660492.40

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131	distributor at the rate of 0.20 kg/m2 on the prepared bituminous surface cleaned with mechanical broom(Page No.29, LNo. 5.3 of Vol-3 SR 2021-22).	Sqm		9032.90		9032.90	13.20	119234.28
132	Bituminous Concrete Grading II for traffic <20 MSA Providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 per cent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem	Sqm		361.32		361.32	11672.10	4217316.48
133	Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous SurfaceProviding and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from streaks and holes(Page No.57, LNo. 8.15 of Vol-3 SR 2021-22)	Sqm		321.60		321.60	525.80	169097.28
134	Geophysical investigation at site for sinking borewells for supplying drinking water to the habitation either through the Hand Pump MWS or P.W.S.S, by vertical electrical sounding by adopting Venner or Schlumbergers's method, including reconnaissance survey of geological formation. Geophysical investigation of existing ground water in the vicinity, its quality, quantity and acceptability of the users, indicating the location of the site	No			22.00	22.00	5141.00	113102.00
135	Sinking of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burdern upto 20 m. Fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicle, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor					0.00		0.00
	0 to 50 m	Rmt			1100.00	1100.00	347.00	381700.00
	50 to 100 m	Rmt			1100.00	1100.00	442.00	486200.00
	100 to 150 m	Rmt			1100.00	1100.00	456.00	501600.00
	150 to 200 m	Rmt			1100.00	1100.00	536.00	589600.00
	200 to 250 m	Rmt			1100.00	1100.00	634.00	697400.00
	250 to 300 m	Rmt			1100.00	1100.00	700.00	770000.00

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	350 to 400 m	Rmt			1100.00	1100.00	900.00	990000.00
	400 to 420 m	Rmt			440.00	440.00	1129.00	496760.00
136	Providing and fixing 250mm dia PVC (casing pipe) (page no.XXXI, SL no.909) (KPWD SR 2016-17)	Rmt			264.00	264.00	2600.00	686400.00
137	Supply of ISI mark 175mm nominal bore,plain and steel casing pipe grade of steel Fe 410 of wall thickness conforming to IS 4270-2001 and latest ammendments, electrical resistance welded steel tubes, material and conforming to IS 1387-1993 and manufactured by basic open hearth electric or basic oxygen process in random length of 5-7m both ends threaded conforming to IS 554-1985 one end fixed with socket conforming to IS 4270-	Rmt			1100.00	1100.00	1933.00	2126300.00
138	Providing and fixing MS casing collars as per IS 1239 (part-II) 1982 with all latest amendments if any for any dia. The thickness of plate used for covering one end shall be 3mm (minimum). The dimensions of caps and colars shall be strictly as per IS 1239 (Part-II) 1982 with all amendments	Each			183.33	183.33	150.00	27500.00
139	Providing 175mm dia Bore Cap CE (M)	No			22.00	22.00	100.00	2200.00
140	Atalanta suguna CRI KIRLOSKAR and other equipments pumps 10.00 HP/7.5 KV (20 stage)	No			22.00	22.00	49955.00	1099010.00
141	Providing and fixing in trenches galvinised/mild steel tube 50mm dia nominal bore with all fittings (earth work in trenches to be measured and paid for seperately) including cost of all materials, labour charges,HOM of equipment and testing complete as per specifications. Specification No. KBS 13.2.14/13.6 (page no.92/lt no.13.15)KPWD SR 2018-19	Rmt			7590.00	7590.00	411.28	3121615.20
141	Supplying and drawing 3 core flat PVC sheathed submersible pump cable maufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to table 3 class 5 to IS 8130-1984 and virgin grade PVC insulation and power coating extruded PVC sheathed suitable for working voltage upto 1100 volts with specified IS 694-1990 and confirming to the attwached GTP of group A 3CX4.0 sq mm	Rmt			15400.00	15400.00	126.70	1951180.00
142	Providing and fixing in position 50mm Nominal bore non-return valve vertical type of approved make including cost of all materials,labour and HOM of equipment with all leads complete as per specifications.(PWD SR 18-19,P-95/lt no.13.62)	No			22.00	22.00	1345.14	29593.08

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143	making long screws etc complete (New Work)	No			22.00	22.00	597.30	13150.60
144	Spplying and fixing 50mm GI Elbow.	No			22.00	22.00	111.80	2459.60
145	Spplying and fixing 50mm GI Nipple	No			22.00	22.00	104.30	2294.60
146	Spplying and fixing 50mm GI Hose colleres	No			1276.00	1276.00	103.00	131428.00
147	Supplying and fixing 20" x 20" x 2.5" polished wood board made of not less than 15mm thick plank on both the sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc.,	No			22.00	22.00	302.00	6644.00
148	Supplying and fixing miniature circuit breakers on existing MCB distribution board using necessary fixing materials and 'C' type curve indicator ON/OFF energy cross-3 with short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.(PWD Ele SR 2022-23 ,P-13/Sl no.5.17.7) 6-32 A TPN	No			22.00	22.00	1777.00	39094.00
149	Supplying of TPST with rewirable porcelain channels in SM encloser made out of 14 SWG powder coated point of approved colour 32 amps (PWD Ele SR 2022-23,P-10,It-5.5.1)	No			22.00	22.00	1944.00	42768.00
150	Supplying and fixing LED type panel board indicating lamp with required colour suitable for 220 V AC 50 HZ 12/24 V DC(PWD Ele SR 2022-23 P-14,Sl no.5.38)	No			22.00	22.00	464.00	10208.00
151	Suppling fully automatic star delta starter unit push button type with suitable wires 2 conductors and adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 volts phase and wired after fixing to the existing wooden board for motor. upto 12.5HP(PWD Ele SR 2022-23,p-10,Sl no.-5.2.1)	No			22.00	22.00	6912.00	152064.00
152	Supplying and fixing single phase preventer using necessary wires over an existing panel board suitable for motar up to 20 HP capacities.(PWD Ele SR 2022-23,p-10/Sl no.5.3)	No			22.00	22.00	805.00	17710.00
153	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade multistrand copper conductor single core wire in open or concealed system of wiring as per IS 694:1990 & conforming to the attached GTP of group A. 4 sqmm (PWD Ele SR 2019-20,p-3,It-2.3.4(d)	Mtrs			440.00	440.00	59.00	25960.00

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154	Supplying fixing and wiring heavy duty low voltage capacitors conforming to IS 2834 phase 400/440 volts grade, for power factor improvement of rotating machinery (PWD Ele SR 2022-23 ,p-14/SI no.5.37)	No			88.00	88.00	533.00	[illegible]
155	Supplying, fixing, wiring, earth electrode for grounding conduits, LC cotouts and other equipments on the meter board using 40mm dia 2.90 thick GI pipe 2.5 mtr long buried in a pit... The pit should be filled with equal proprotion of salt and charcoal 150mm alround the pipe to complete depth. The connection from the to the conduit etc., is to be established through GI wire of size as per ISI specification 7.2.3 of IS 732 using 12mm dia (PWD Ele	No			22.00	22.00	2999.70	65993.40
156	Digging of trench of 0.36mtrs deepx0.5 mtrs wide refilling the trench to the required gorund level and consolidating etc., complete (PWD Ele SR 2019-20,p-41,It-6.6.2) hard soil	Mtrs			176.00	176.00	102.00	17952.00
157	Supplying laying 1.1 KV class LT UG cable having aluminium conductor PVC insulated extruded inner shethed galvanised steel strip (excep 2cx 10 sqmm wire armoured) confirming to IS-3975:1990 (No. of strip indicated in GTP) and extruded PVC outer sheathed armoured cable with specified IS-1554,part-1:1988 and confirming to the attached GTP of group A 4 core 16 sq mm PWD Ele SR 2019-20 p-40 It-6.4.4)	Mtrs			220.00	220.00	150.00	33000.00
158	Labour charge for laying 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe/ on wall / on poles as required in existing trench/duct. 6 sq mm to 16 sq mm(PWD Ele SR 2019-20,p-41,It-6.5.1)	No			550.00	550.00	11.88	6534.00
159	Supplying and fixing class-A(medium duty) GI pipe wall thickness not less then 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1KV class 40mm(PWD Ele SR 2019-20,p-41,It-6.9.1)	Rmt			44.00	44.00	335.00	14740.00
160	Supplying and fixing LT cast iron pot heads suitable for 1.1KV class UG cable filled with necessary bitumen / insulating compound complete with terminals,clamps bolts and nuts and washer etc.,complete for 16 sq mm as per specifications.(PWD Ele SR 2019-20,p-42,It-6.10.2)	No			22.00	22.00	270.00	5940.00
161	Supplying and fixing porcelain fuse channel with cut out on the existing wooden block and wiring complete 63 amps(PWD Ele SR 2019-20,p-10,It-5.7.3)	No			66.00	66.00	372.00	24552.00
162	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 m3 in volume and stock piling at designated locations and disposal of dismantled materials and stacking serviceable and unserviceable materials separately	Cum			403.92	403.92	464.20	187498.66
163	Earth work excavation for pipeline trenches in all kinds of by mechanical means above 600 mm trench width as per drawing and technical specifications, including setting out, construction of shoring, strutting, barricading, caution lights, bracing, using sight rails & bonding rods at every 100 mm whevere necessary as directed, removal of slumps and other deleterious matter, dressing of sides and levelling the bottom of trench to the extent	Cum			1077.12	1077.12	376.20	405212.54
164	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete. (external work) - 50mm nominal OD pipes (KPWD SR 2019-19, P-99, It-13.87.6)	Mtr			5984.00	5984.00	772.20	4620844.80

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165	Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete : 25 to 40 mm nominal bore	Each			598.40	598.40	518.10	3100.104
166	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling & testing of joints complete. (external work). - 20mm nominal OD pipes (KPWD SR 2018-19, P-98, It-13.85.2)				220.00	220.00	236.50	52030.00
167	Providing and fixing to wall, ceiling and floor Medium density polyethylene pipes 6.00 kgf/sq.cm working pressure 25mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No KBS 13.2.15.1 / 13.9 (KPWD SR 2018-19, P-95, It-13.67)	Mtr			2750.00	2750.00	136.74	376035.00
168	Refilling available earth around trenches/pipelines, cables in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with a lead upto 50 m , and lift upto 1.5 m. Including cost of all labour complete as per specifications	Cum			753.98	753.98	134.20	101184.65
169	Loading and unloading of stone boulder/stone aggregates/sand/kanker/ moorum. KSRRB M100-1:Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (KPWD SR 2018-19,P-136, it.17.1)	Cum			727.06	727.06	97.96	71222.41
170	Providing and fixing Brass full way valve gate with C.I. wheel of approved quality (screwed end) 65 mm nominal bore	Each			22.00	22.00	1529.00	33638.00
171	Providing and fixing Brass full way valve gate with C.I. wheel of approved quality (screwed end) 65 mm nominal bore	Each			598.40	598.40	358.60	214586.24
172	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances	Cum			403.92	403.92	6518.60	2632992.91
173	BESCOM deposit Charges and miscellaneous	No			22.00	22.00	12000.00	264000.00
174	Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting &	Cum			2260.81	2260.81	161.10	364216.89
175	Construction of Granular Sub-Base of required grading as per design mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per clause 401. Granular Sub-BasePlant Mix Method, Materia Item No 4.1(V) Page No 19, Vol III SR-21-22	Cum			1356.49	1356.49	2581.70	3502043.78

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176	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density. Wet Mix Macadam (Plant mix method) (Page No.24, I.No. 4.27	Cum			1582.57	1582.57	2633.40	4167[illegible]
177	Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means. (Page No.29, I.No. 5.1 of Vol-3 SR 2021-22).Issue Rate 07/07/2022	Sqm			9043.25	9043.25	46.20	417798.15
178	Bituminous Macadam Grading - II for traffic <20 MSA Providing and laying Bituminous Macadam with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading premixed with bituminous binder VG-30 @ 3.4% by weight of mix, transported to site, laid over a previously prepared surface with mechanical paver finisher to the required grade, level and alignment and rolled as per clauses 501.6 and 501.7 to achieve	Cum			452.16	452.16	8104.80	3664686.63
179	Providing and applying tack coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.20 kg/m2 on the prepared bituminous surface cleaned with mechanical broom(Page No.29, I.No. 5.3 of Vol-3 SR 2021-22).	Sqm			9043.25	9043.25	13.20	119370.90
180	Bituminous Concrete Grading II for traffic <20 MSA Providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 per cent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled vibratory and tandem	Sqm			361.73	361.73	11672.10	4222148.73
181	Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous SurfaceProviding and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from streaks and holes(Page No.57, I.No. 8.15 of Vol-3 SR 2021-22)	Sqm			318.76	318.76	525.80	167604.01

Construction Total Amount	91350058.85
Add GST Charges 18%	16443010.59
Add Detailed Project Report (DPR) and PMC Charges 2.0%	2200000.00
Sub Total	109993069.44
Miscellaneous and unforeseen charges etc.L.S	6930.56
Grand Total	110000000.00

TECHNICAL SANCTION

Rs: 9,13,500.58/- (Rs Nine lakhs thirteen lakhs fifty thousand fifty Eight only) is accorded

under the head: _____

By CE(R.R.N.), P.N - 20-21

Registered as CE (R.R.N) No 64/22-23 subject to conditions contained in enclosed memo No: 64/22-23 Dated 8/7/2022

TA, CE (R.R.N.)

ಸಂ: 38/22-23 ದಿನಾಂಕ: 20/09/2022

ರೂ. 11,00,00,000/-

(Eleven Lakhs only)

ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ರಾಜರಾಜೇಶ್ವರಿ ನಗರ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-72

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Executive Engineer
RR NAGARA Division
BBMP

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BRUHAT BANGALORE MAHANAGARA PALIKE

DETAILED TENDER SCHEDULE

Name of Work : Comprehensive Development of Roads & Drains in Prem Nagara, Chowdeshwari Nagar, Kottigepalya Village in W No.73 Kottigepalya and Drilling of Borewells, Providing Water Supply in Kebbehalla, kengunte, Mallathahalli and Surrounding areas in W No.129 under PACKAGE- 2022-23 RRN-DIV-(11).

Description	Unit	Total Quantity	Rates In Rupees	Rates In Words
Removing and refixing stone slabs of drains and pointing in CM (1:3)	Sqm	4923.32	121.00	Rupees One Hundred Twenty One Only
Removing And resetting of kerb stones	Mtr	1695.38	118.00	Rupees One Hundred Eighteen Only
Earth work excavation by manual means for drains,canals, waste weir draft, approach channels, key trench, foundation of Bridges and such similar works, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, excavated surface leveled and sides neatly dressed [illegible] and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, [illegible]	Cum	1480.43	410.86	Rupees Four Hundred Ten And Paise Eighty Six Only
[illegible] and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with [illegible]	Cum	30.43	6327.20	Rupees Six Thousand Three Hundred Twenty Seven And Paise Twenty Only
Providing Thermo-Mechanically Treated bars of grade Fe-500D or more Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position, binding and anchoring to adjacent members wherever necessary complete as per Design including cost of material, labour, usage charges complete as per [illegible] (The lap and wastages shall not be measured separately) Vol-II, P.No-	Cum	58.09	7225.68	Rupees Seven Thousand Two Hundred Twenty Five And Paise Sixty Eight Only
Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, [illegible]	Ton	3775.59	116.60	Rupees One Hundred Sixteen And Paise Sixty Only
Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand)(VOL-II,P.No-9, I.No.5.4-SRB-2021-22)	Cum	4.91	5900.40	Rupees Five Thousand Nine Hundred And Paise Forty Only
Providing and constructing load bearing wall with Solid Concrete blocks of size 400x150x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572-2005 including cost of all materials, labour, [illegible]	cum	16.51	5964.20	Rupees Five Thousand Nine Hundred Sixty Four And Paise Twenty Only
Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, [illegible]	Sqm	1557.90	1173.70	Rupees One Thousand One Hundred Seventy Three And Paise Seventy Only
21.10 Providing ruled pointing to cursed stone masonry with lime mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost all materials, labour, usage charges of machinery, curing complete as pre specification.(VOL-II,P.No-190, I.No.21.10-SRB-2021-22)	Sqm	108.81	6518.60	Rupees Six Thousand Five Hundred Eighteen And Paise Sixty Only
Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, [illegible] cost of all materials of	Sqm	32.32	261.80	Rupees Two Hundred Sixty One And Paise Eighty Only
Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete.- do - 7.5 cms thick (P-27/5.31.1) PWD SR 2018-19	Cum	82.20	6281.56	Rupees Six Thousand Two Hundred Eighty One And Paise Fifty Six Only
Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete.- do - 10 cms thick (P-27/5.31.2) PWD SR 2018-19	Sqm	1969.33	742.00	Rupees Seven Hundred Forty Two Only
KSRB 5-8.1 ; Providing one line dressing to granite stone slab / granite stone masonry as per specifications. KBS 5.1.13 (P-26/5.17) PWD SR 2018-19	Sqm	1312.88	837.00	Rupees Eight Hundred Thirty Seven Only
Machine Cutting to granite stone slabs edge all four sides to get plain even surface. (Approved Data rate)	Sqm	1312.88	242.00	Rupees Two Hundred Forty Two Only
	m	7293.00	390.00	Rupees Three Hundred Ninety Only

No. of corrections: NIL

P. N - (1)

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Description	Unit	Total Quantity	Rates In Rupees	Rates In Words
...ding & laying precast drain cover slab of 100 mm thickness in CM 1:3 including ... of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge (0.90 x 0.60 x 0.10) (Approved Data rate)	Sqm	210.60	2072.00	Rupees Two Thousand Seventy Two Only
Providing & laying precast drain cover slab of 250 mm thickness in CM 1:3 including ... of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge (1.2 x 0.60 x 0.25) (Approved Data rate)	sqm	32.76	5037.00	Rupees Five Thousand Thirty Seven Only
Providing and fixing pre cast solid concrete kerb stones of size 450x150x500 mm made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc., complete Page No. 27/ Item No. 5.29.2/ PWD SR 2018-19	No's	5222.62	507.00	Rupees Five Hundred Seven Only
Painting Two Coats on New Concrete Surfaces Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces MORTH Specification No 803 Page No. 56/ Item No 8.10/ Vol-3 R&B SR 2021-22	Sqm	1618.22	93.50	Rupees Ninety Three And Paise Fifty Only
Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other ... matter including dressing of excavated surfaces, disposing off or	cum	564.30	339.06	Rupees Three Hundred Thirty Nine And Paise Six Only
Loosening, leveling and Compacting original ground supporting embankment to facilitate placement of first layer of embankment, scarified to a depth of 150 mm, mixed with water at OMC and then compacted by rolling so as to achieve minimum dry density as given in Table 300-2 for embankment construction complete as per specifications MORTH Specification No. 305.3.4(R No.14.1 No. 3.7 of Vol-3 PWD SR	Sqm	3762.00	95.70	Rupees Ninety Five And Paise Seventy Only
Construction of Dry lean cement concrete sub-base over a prepared sub grade with coarse and fine aggregates confirming to IS 383:2016 the size of coarse aggregates not exceeding 25mm replacing cement by fly ash to the extent of 20 percent, aggregate cement ratio not to exceed 15:1 aggregates gradation after blending to be as per table 600-1	Cum	564.30	4615.60	Rupees Four Thousand Six Hundred Fifteen And Paise Sixty Only
Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS.383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix	Cum	564.30	7334.80	Rupees Seven Thousand Three Hundred Thirty Four And Paise Eighty Only
Geophysical investigation at site for sinking borewells for supplying drinking water to the habitation either through the Hand Pump MWS or P.W.S.S, by vertical electrical sounding by adopting Venner or Schlumbergers's method, including reconnaissance survey of geological formation. Geophysical investigation of existing ground water in the vicinity, its quality, quantity and acceptability of the users, indicating the	Each	1.00	5141.00	Rupees Five Thousand One Hundred Forty One Only
Sinking of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burdern upto 20 m. Fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicle, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum				Rupees Nil
a) 0.00 to 50.00 mts	Rmt	50.00	347.00	Rupees Three Hundred Forty Seven Only
b) 50.00 to 100.00 mts	Rmt	50.00	442.00	Rupees Four Hundred Forty Two Only
c) 100.00 to 150.00 mts	Rmt	50.00	456.00	Rupees Four Hundred Fifty Six Only
d) 150.00 to 200.00 mts	Rmt	50.00	536.00	Rupees Five Hundred Thirty Six Only
e) 200.00 to 250.00 mts	Rmt	50.00	634.00	Rupees Six Hundred Thirty Four Only
Supply of ISI mark 175mm nominal bore plain and steel casing pipe grade of steel Fe 410 of wall thickness conforming to IS 4270-2001 and latest ammendments, electrical resistance welded steel tubes	Rmt	60.00	1933.00	Rupees One Thousand Nine Hundred Thirty Three Only
Supply and fixing Borewell cap and clamp set Page No XL VIII, SI PWD SR 2018-19.	Each	1.00	1800.00	Rupees One Thousand Eight Hundred Only
Prviding nd fixing 200 mm dia 6 kgs/cm PVC pipe (PRED SR 14-15 P-III No: 86	Rmtr	15.00	2600.00	Rupees Two Thousand Six Hundred Only

No. of Corrections: NILL

P.N - 2

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Description	Unit	Total Quantity	Rates In Rupees	Rates In Words
...ry and delivery at site brand new CRI/Texmo/Atlanta/Luby/Suguna make or ...quivalent ISI make suitable for vertical installation in 150 mm bore ells ...comprising of single stage or multistage CF pump closed by mens of sainless steel ...coupling to suitable HP, suitable speed totally enclosed and fitted with pure ...delivery water front type) squirrel cage submersible induction motor suitable for ...KSKB 13.3.6 Providing and fixing to wall, ceiling and floor galvanised / mild steel ...tube 50mm ia nominal bore with fittings (medium grade weight 1.27 Kg/mtr) B class ...including cost of all materials, labour charges, HOM of equipment and testing ...complete as per specifications. Specification No. KBS 13.2.14/13.8 (P-93, It.13.16, ...cover SR-2018-19)	No	1.00	78036.00	Rupees Seventy Eight Thousand Thirty Six Only
Supplying and drawing 3 core flat PVC sheathed submersible pump cable ...manufactured with electrolytic grade copper conductor cofirming to table 3 class 5 to ...IS 8130-1984 and virgin grade PVC insulation and powder coating extruded PVC ...sheathed suitable for working voltage upto 1100 volts with specified IS 694:1990 and ...confirming to the attached GTP of Group A 3C x 6.0 Sq mm PWD SR 2018-19 Page ...	Rmt	262.00	525.76	Rupees Five Hundred Twenty Five And Paise Seventy Six Only
Labour charges for Erection of pumpset including aligning and balancing with all ...necessary erection materials and labour including supply and erection of one pair of ...supporting clams, borewell cap, cable clips with bolts, nuts, valve gauges etc., ...involved in the job. (Necessary G.I.Pipe and specials will be supplied by the board at ...the site free of cost) and related pumpset should be handed over to department ...	Mtr	360.00	220.00	Rupees Two Hundred Twenty Only
Supplying and fixing 50mm heavy duty GI Collars. (PWD SR 2018-19, P-XLVII), ITEM 2 (Accessories of pump set).	Length	43.66	92.00	Rupees Ninety Two Only
Providing and fixing in position 50mm Nominal bore non- return valve vertical type of approved make including cost of all materials, labour and HOM of equipment with all leads compleate as per specification.(PWD SR 2018-19, P-XLVII, It-16) under Accessories of pump set	Nos	35.00	180.00	Rupees One Hundred Eighty Only
Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :SR 2021-22 Volume II P.No 117 No 13.10.6	Nos	1.00	1800.00	Rupees One Thousand Eight Hundred Only
Supplying and fixing 50mm GI Nipple (PWD SR 2018-19,P-XXXIX)	Nos	1.00	543.00	Rupees Five Hundred Forty Three Only
Supplying and fixing 50 mm dia GI Bend with ISI mark (PWP & IWTD B C) 2015-16	Nos	3.00	104.30	Rupees One Hundred Four And Paise Thirty Only
Supplying of on load charges over switches 4 poles, 415V 5 Hr Ac supply 100-125 amps Group A (BWSSB SR Rate P No.3481, It No. II Group A)	Nos	3.00	124.00	Rupees One Hundred Twenty Four Only
Supplying and fully automatic star-delta unit push button type with suitable wires, 3 contactosr, one adjustable thermal timer mounted on a common base late held in steel enclosure for use on 440/440 volts 3 phase and wired after to the existing wooden board for motor 12.5 HP (BWSSB SR P No.335, It No.10(A)	Nos	1.00	9845.00	Rupees Nine Thousand Eight Hundred Forty Five Only
Erection of single phase preventer / ammeters / including fixing selector switch / voltmeter / current operated earth leakage circuit breakers / voltage operated circuit breaker / above 100A fuse channel set (3 Nos) HRC fuses above100A (3 Nos.) / Digital ammeter/digital volt meter/set of3 indicating IA /MCB / Relays /A-V selector ...switches including wiring using suitable capacity wires, bolts, nuts, screws (P-46, It ...	Nos	1.00	5665.00	Rupees Five Thousand Six Hundred Sixty Five Only
Out door Panel board upto 20 HP (PWD SR PG -XLVII item- 13)	LENGTH	1.00	162.00	Rupees One Hundred Sixty Two Only
Supplying & fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. - 50-63 A SP (ELE SR-2021-22, P-13, It No.5.17.3)	Nos	1.00	21000.00	Rupees Twenty One Thousand Only
Supplying andrunning of GI copper strip or grounding connection using necessary fixing material required 600x600c3mm GI plate (P-378, It9(E)	Nos	1.00	734.00	Rupees Seven Hundred Thirty Four Only
Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers. (ELE SR 2021-22, P NO 10,I No. 5.7.2	Nos	3.00	1072.00	Rupees One Thousand Seventy Two Only
Fabricating supplying and mounting MS box made out ....SWG suitable for floor /wall mounting, fully weather proof with ...hinged front cover, equipped with tamper proof locking arrangements, with suitable ...sheda with necessary cable entry pipe with gland and bay should be finished with ...	Nos	3.00	200.00	Rupees Two Hundred Only
Providing and fixing Brass full way valve gate with C.I. wheel of approved quality (screwed end) 50mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete s per specifications. Specification No.KBS 13.2.6/ 13.3 (VOL-2 PWD SR 2021-22 P-115, It.No.13.4.4)	cms	30400.00	0.38	Rupees And Paise Thirty Eight Only
	Nos	1.00	917.40	Rupees Nine Hundred Seventeen And Paise Forty Only

PWD.. At corrections: NIL

P.N. (3)

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Description	Unit	Total Quantity	Rates In Rupees	Rates In Words
Supplying and laying of L.T.U.G cable having aluminium conductor PVC insulated armoured galvanised steel wire/steel tape armoured cable with PVC outer sheathing 1.1 KV class 4 core 16 Sqmm PVC cable (KPWD Elec SR 2010-11, P-No 68 & 69/No 4-1 d)	Mtr	28.00	140.00	Rupees One Hundred Forty Only
Labour charges for Laying of 1.1 KV Class UG cable 6 Sqmm to 16 sqmm (KPWD Elec SR 2010-11P-69, Item- 5.1a	Mts	28.00	10.80	Rupees Ten And Paise Eighty Only
Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating in Hard soil etc., complete. complete as per specifications and direction of the Engineer-in-Charge (KPWD Electrical SR 2010-11)P-70 Item - 10b	Mtr	150.00	106.00	Rupees One Hundred Six Only
Supplying and fixing Class-A (Medium duty) -GI pipe wall thickness not less than 3.25mm on pole/wall/Drain crossing with necessary clamping arrangements for UG Cable of 1.1 KV class 40mm (KPWD Ele SR 2010-11 P-70/N0 9 a	Mtr	18.00	345.00	Rupees Three Hundred Forty Five Only
Supplying and fixing LT cast iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen / insulating compound complete. With terminals, clamps, bolts nuts and washers etc.complete for 16 Sqmm as per specification ((KPWD SR 2018-19, Page XLVII, item No:21 under accessories of pump set installation.	Each	1.00	360.00	Rupees Three Hundred Sixty Only
Earth work excavation for pipelines/cables by Manual means upto 600 mm trench width, as per drawing and technical specifications, including setting out, shoring, scrutting, barricading, caution lights, removal of stumps and other deleterious matter, including dressing of excavated surfaces, disposing off or leveling the excavated earth as required & stacking the selected earth for reuse in a radius of 50 m. Filling available	Cum	52.20	517.00	Rupees Five Hundred Seventeen Only
Providing and fixing Chorinated Poly Venyl Chloride (CPVC) 20mm pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, including fixing the pipe and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including making of joints complete(concealed work including cutting chases and good the	Mts	180.00	772.20	Rupees Seven Hundred Seventy Two And Paise Twenty Only
KSBB13-9 : Providing and fixing to wall, ceiling and floor high density polyethylene pipes 6.00 kgf/sq.cm working pressure of outside diameter raising mains & exposed distribution pipes with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM construction complete as per specifications. Specification No. KBS 13.2.15.2./13.9	Mts	190.00	210.60	Rupees Two Hundred Ten And Paise Sixty Only
Refilling available earth around trenches/pipelines, cables in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with a lead upto 50 m , and lift upto 1.5 m. Including cost of all labour complete as per specifications .(P.No 7, I.No. 1.10 of Vol-1 CSR 2021-22)	Cum	44.37	134.20	Rupees One Hundred Thirty Four And Paise Twenty Only
BESCOM charges & KEB Deposit	Nos	1.00	15000.00	Rupees Fifteen Thousand Only
Supplying, fixing ,wiring, earth electrode for grounding conduits, IC cutouts and other equipments on the meter board using 40mm dia 2.9mm thick GI pipe 2.5 mtr long buried in a pit... the pit should be filled with equal proportion of salt and charcoal 150mm alround the pipe to complete depth. The connectionh from the pipe to the conduit etc.is to be established through GI wire of size as per ISI Specification 7.3.3	Nos	1.00	3000.00	Rupees Three Thousand Only
Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead C. Destracted / Reinforced cement concrete grade M-20 & above MORTH Specification	Cum	3.21	2038.30	Rupees Two Thousand Thirty Eight And Paise Thirty Only
Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces disposing off or	Cum	29.55	298.10	Rupees Two Hundred Ninety Eight And Paise Ten Only
Earth work excavation for Foundation by mechanical means for all works & depth upto 3 m, as per drawing and technical specifications, including setting out, shoring, scrutting, barricading, caution lights, including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage	Cum	26.93	299.20	Rupees Two Hundred Ninety Nine And Paise Twenty Only
Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all	Cum	4.95	6518.60	Rupees Six Thousand Five Hundred Eighteen And Paise Sixty Only
Cost of howlage including Add loading, unloading item surface road up to 15kms . Loading and unloading charges Pg No.139 BR=668+(1.28*2.50*15) =116	Cum	59.69	116.00	Rupees One Hundred Sixteen Only
KSBB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.(Page.25/Item No. 5.6)(PWD SR 2018-19	Cum	5.40	4963.68	Rupees Four Thousand Nine Hundred Sixty Three And Paise Sixty Eight Only
Providing and laying in position Reinforced cement concrete for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super admixtures laid in layers, well compacted using needle vibrators. The cost includes all	Cum	11.65	7118.10	Rupees Seven Thousand One Hundred Eighteen And Paise Ten Only

No. of Corrections: NIL

P. N - (4)

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Description	Unit	Total Quantity	Rates In Rupees	Rates In Words
...ing available earth around trenches/pipelines, cables in layers not exceeding 20 ... in depth, compacting each deposited layer by ramming after watering with a lead ... upto 50 m , and lift upto 1.5 m. Including cost of all labour complete as per Specifications (Page.35/Item No.1.10) VOL-1 CSR of 2021-22	Cum	19.35	134.20	Rupees One Hundred Thirty Four And Paise Twenty Only
Providing Thermo-Mechanically Treated bars of grade Fe-500D or more Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position, binding and anchoring to adjacent members whereever necessary complete as per Design including cost of material, labour, usage charges complete as per specifications. (The laps and wastages shall not be measured separately)(Vol-II, P.No- KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specificaitons. (Page.16/I.No.4.31) SR of 2018-19	Mt	1281.47	116.60	Rupees One Hundred Sixteen And Paise Sixty Only
KSRB 4-6.3 : Providing and removing centering, shuttering, strutting, propping etc.,and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness above 200 mm including cost of all materials, labour complete as per specificaiton. Specification No. KBS 4.6.2 (Page.16/Item No.4.30)CSR of 2018-19	Sqm	32.56	386.64	Rupees Three Hundred Eighty Six And Paise Sixty Four Only
KSRB 5-14.1 Providing and constructing precast concrete solid blocks with compressive strength not less than 3.5 Newton per sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x15x20cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour ... scaffolding curing complete as per specifications(Page 27 /Item No.5.27.2)	Sqm	22.02	475.20	Rupees Four Hundred Seventy Five And Paise Twenty Only
KSRB15-3.14 : Providing 12mm thick cement plaster in single coat with cement mortar 1:4, to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications (Page.117/Item 15.22) SR OF 2018-19.	Sqm	31.09	1045.72	Rupees One Thousand Forty Five And Paise Seventy Two Only
Providing 15 mm cement plaster on the rough side of single or half brick wall of mix 1:4 (1 cement: 4 fine sand) including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. (Pg No.117,I.No.9.7.1, Vol-2 SSR 2021-22)	Sqm	16.00	253.97	Rupees Two Hundred Fifty Three And Paise Ninety Seven Only
KSRB 15-15 : Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications (Page.117/I.No.15.16) SR of 2018-19.	Sqm	19.68	278.30	Rupees Two Hundred Seventy Eight And Paise Thirty Only
Providing and laying in position Reinforced cement concrete for all Foundation works. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticizers laid in finished layers, well compacted ... including all lead & lifts, cost of all materials, quality ... using needle vibrators,	Sqm	63.45	296.44	Rupees Two Hundred Ninety Six And Paise Forty Four Only
Providing and fixing Vitrified glazed tiles of approved make, quality and colour of size 600x600x10mm thick fixed on existing flooring with a special adhesive for flooring, skirting and jointed with neat cement slurry mixed with pigment to match shade of tiles, including providing spears at required interval and removing stains ... complete as per specification (Page 110 /I.No.14.44)SR of 2018-19	Sqm	11.96	6854.10	Rupees Six Thousand Eight Hundred Fifty Four And Paise Ten Only
KSRB 7.7 : Providing and fixing in position in cement concrete 1:3:6 steel glazed windows and ventilators side hung/top hung fully openable as per approved drawings using Z angles of 25x33x3mm, weighing 1.419 Kg/m both for outer and inner frames and central mullion section of size 25x46x3mm. weighing 2.28Kg/m ... including T section 19x19x3mm weighing 0.839 kg/m holdfasts of approved	Sqm	41.35	1117.80	Rupees One Thousand One Hundred Seventeen And Paise Eighty Only
Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs	Sqm	0.27	161.70	Rupees One Hundred Sixty One And Paise Seventy Only
KSRB15-7 : Providing lime rendering for plastering to wall and ceiling, including cost of materials, labour, curing complete as per specifications.(Page 117/Item 15.33 SR 2018-19	Sqm	11.13	2761.00	Rupees Two Thousand Seven Hundred Sixty One Only
KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications (Page 120 /Item No.15.53.2) SR 2018-19	Sqm	35.68	34.56	Rupees Thirty Four And Paise Fifty Six Only
Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade: One coats on old work as per specifications and as per directions of Engineer in charge. (VOL-2 SR 2021-22 Page.51/Item 8.63)	Sqm	63.45	110.16	Rupees One Hundred Ten And Paise Sixteen Only
KSRB 7.15 : Providing, fabricating, assembling and fixing in position anodized aluminium partitions using aluminium sections of mat finish or glassy finish in combination of plain grove, single grove and double grove as per requirements for the frames of overall size 63.5mm x 38.1mm. with thickness of 2mm. having section weight plain sections 1.054kg/m, single grove thickness 1.95mm, section weight 5.29 Providing and fixing Pre cast solid concrete kerb sones made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc complete of size 450x200x400 Page No 27 Item No 5.29.1 /PWD SR 2018-19	Sqm	35.68	68.20	Rupees Sixty Eight And Paise Twenty Only
Providing and laying 100 mm thick pre cast cover slabs over drain of width not exceeding 800 mm using M 20 concrete reinforced with steel @ 6.00 kg/sqm slabs jointed in CM 1:3 proporaotion and nicely finished including providing holes in the cover slabs wherever necessary for easy drainage of surface water including of labour materials HOM of machineries, curing lead and lift charges etc complete as	Nos	13.45	3633.12	Rupees Three Thousand Six Hundred Thirty Three And Paise Twelve Only
	MTS	125.00	486.00	Rupees Four Hundred Eighty Six Only
		50.00	1167.48	Rupees One Thousand One Hundred Sixty Seven And Paise Forty Eight Only

No. of Corrections: NIL

P.N-(5)

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Description	Unit	Total Quantity	Rates In Rupees	Rates In Words
...ing with synthetic enamel paint of approved brand and manufacture to give an ...shade :Two coats on new work after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper	Sqm	50.00	99.00	Rupees Ninety Nine Only
...cost of materials, labour complete as per specifications and as per directions ...KSRB 13-11.1 : Providing and placing on terrace, polyethylene water storage tanks with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per ...specifications (For 1000 litre capacity) Specification No KRS 13.22 Page-no-96 Item-	Nos	1.00	6828.00	Rupees Six Thousand Eight Hundred Twenty Eight Only
Raw water Feed pump with starter,Type-Horizontal ,Centrifugal,Make-Kirloskar/Beacon weir/Sumo/CNP(SS),Material of Construction-Cast Iron,Head-36 MWC Motor-3.0HPthree phase.Starter-L&T Siemen make push botton type DOL Starter (Data rate approved)	Nos	1.00	24500.00	Rupees Twenty Four Thousand Five Hundred Only
Multi graded sand filter,type-verticle,Floor Mounted,Make-pentair/structural/ION EXCHANGE(INDIA) LTD/Zeolite/Aquario,min.operating Pressure 2.0kg/cm2,Max. Operating Pressure -3.5kg/cm2, Treatment Flow Rate-6000liters/Hr,Type of valve Size-Multiport,50NB,make-UKL/Initiative,Filtering Media -Gravel,Graded Sand & Pebbles (Data rate approved)	Nos	1.00	33000.00	Rupees Thirty Three Thousand Only
Activated carbon Filter type-Verticle,Floor Mounted,Make-pentair/Structural/ION EXCHANGE(INDIA) LTD/Zeolite/Aquario,min.operating Pressure 2.0kg/cm2,Max. Operating Pressure -3.5kg/cm2, Treatment Flow Rate-6000liters/Hr,Type of valve Size-Multiport,50NB,make-UKL/Initiative,Filtering Media -Gravel, Activated Carbon & pebbles (Data rate approved)	Nos	1.00	62500.00	Rupees Sixty Two Thousand Five Hundred Only
Water Softner,type-Verticle,Floor Mounted,Make-pentair/Structural/ION EXCHANGE(INDIA) LTD/Zeolite/Aquario,min.operating Pressure 2.0kg/cm2,Max. Operating Pressure 3.5kg/cm2, Treatment Flow Rate-6000liters/Hr,Type of Resin INDION 220Na or Thermax T40 (Data rate approved)	Nos	1.00	62000.00	Rupees Sixty Two Thousand Only
Antiscalant Dosing System,Equipment Required-Electronic Dosing Pump with Solution Tank,make-Ion Exchange (I) Ltd./ASIA LMI/Zeolite,Material of Construction-PP(Polypropelene),Discharge @Max Back Pressure-2.88litr/Hr @8bar,Discharge@Nominal Back Pressure=3.12Lit/Hr @ 4Bar,Chemical to be dosed-INDION Antiscalant (Data rate approved)	Nos	1.00	85000.00	Rupees Eighty Five Thousand Only
Accessories for Dosing System,Solution Tank-One No,Volume-100Litres,Material of Construction-HDPE,Tank level Switch-One No. (Data rate approved)	Nos	1.00	42000.00	Rupees Forty Two Thousand Only
Reverse Osmosis System,Type-Horizontal Skid,Floor Mounted,Permeate water-Minimum 2000litr/hr,Maximum Permissable TDS in feed (PPM)-2500.	Nos	1.00	89000.00	Rupees Eighty Nine Thousand Only
Pressure Vessel,Material of Construction-FRP,Make-Advance Composite/Code Line.	Nos	1.00	85000.00	Rupees Eighty Five Thousand Only
Membrane, Type-Brackish water . Nos required-Three.Make-TORAY JAPAN /Hydranautics/Filmtec/Tricep (Data rate approved)	Nos	1.00	88000.00	Rupees Eighty Eight Thousand Only
High pressure pump,Type- verticle,multistage,Make-GRUNDFOS,MOTOR-7.5 HP 3Phase, Model-CRN series,Material of construction-SS316,starter-L&T/Seimens make push botton type DOL starter (Data rate approved)	Nos	1.00	55000.00	Rupees Fifty Five Thousand Only
Micron Filter,Type -JUMBO,Material of construction of housing-poly propelene (Data rate approved)	Nos	1.00	78000.00	Rupees Seventy Eight Thousand Only
Instruction, Wet panel -Ms powder coated., Mounted on R.O> skid, Low pressure switch-one No,High Pressure Switch-one, Digitalconductivity Meter wiyh sensor , Indon brand-one No , ON/OFF selector Switch -one No, High pressure System Pressure Gauge - one No, Auto Flush Timer -one No, Indication Lamps -one No, ...product Flow Meter- one No, Reject Flow Meter-one No Reject Re-circulation Meter-	Nos	1.00	86000.00	Rupees Eighty Six Thousand Only
pH correction dosing System, Equipment Required-Electronic Dosing Pump with solution Tank, Make-Ion Exchange(1) Ltd./ASIA LMI/Zeolite,Material of construction -PP, Discharge @ max . Back Pressure-2.88 Lit/Hr@8Bar.Discharge@Nominal Back Pressure-3.12 Lit/Hr@4Bar,Frequency-100 Strokes / Min, Chemical to be dosed-PH ...Reactor (Data rate approved)	Nos	1.00	83000.00	Rupees Eighty Three Thousand Only
Solution Tank with level switch, Solution Tank-one No, Volume-100 Liters. Material of construction-HDPE. Tank levelswitch-one No	Nos	1.00	15000.00	Rupees Fifteen Thousand Only
Inter-connecting pipe work ,Raw water tank to feed pump suction and feed pump delivery to R.O. Inlet (up to High pressure pump in let)and RO outlet to Treated water tank-food Grade PVC pipe 40mm NB, Make-Finolex/ supreme,High pressure pump outlet to membrane inlet-ss pipe of required size, Approximate Length-35.0 Mtrs (Data rate approved)	Nos	1.00	78000.00	Rupees Seventy Eight Thousand Only
Ultra violet system, Model-UVS-20,Make-Ion Exchange (I) Ltd./ASIA LMI/Zeolite,ALFA Flow rate-2000L/H (Data rate approved)	Nos	1.00	74500.00	Rupees Seventy Four Thousand Five Hundred Only

No. of corrections: NIL

P. N - (6)

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Description	Unit	Total Quantity	Rates In Rupees	Rates In Words
...water strong tank, 2000 ltrs SS tank, to store RO water with required nozzles (...rate approved)	Nos	1.00	80000.00	Rupees Eighty Thousand Only
...ending Machine ,Digital Swiping Card /coin BoxType (Data rate approved)	Nos	1.00	35000.00	Rupees Thirty Five Thousand Only
Supplying heavy gauge PVC conduit pipe ..... dia ..... mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc , and fixing using inverted wood plugs in case of RCC ceiling and RCC wall/ stone structure or ...wood plugs in case of brick walls and cement plastering the damaged portion using ...gauge saddles at an interval of 700mm using NF screws, 25mm dia 2mm thick	mtr	25.00	80.00	Rupees Eighty Only
Supplying heavy gauge PVC conduit pipe ..... mm dia.....mm thick confirming to IS 2509 with suitable size bends, metal/PVC Junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever	mtr	25.00	70.00	Rupees Seventy Only
Supplying heavy gauge PVC Conduit Pipe .... dia ..... mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering upto the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary. 25 mm dia 2 mm thick (ELE SR 2021-22 Page-1, Item-1.3.2)	Each	20.00	80.00	Rupees Eighty Only
Supplying and fixing sheet Metal box made out of 18 SWG sheet metal with necessary holes for cable/conduit entry as required with one coat of primer of approved make etc.(ELE SR 2021-22 Page-1, Item-1.4)		0.00		Rupees Nil
1.4.3) 135x75x65mm	Each	1.00	131.00	Rupees One Hundred Thirty One Only
1.4.4) 180x90x65mm	Each	1.00	155.00	Rupees One Hundred Fifty Five Only
1.4.5) 200x90x65mm	Each	1.00	169.00	Rupees One Hundred Sixty Nine Only
Supplying and fixing PVC/metal conduit accessories.(3/5) (ELE SR 2021-22 Page-1, Item-1.5)1. Special type junction box 2. Deep junction box	Each	0.00		Rupees Nil
1.5.2) 25mm junction box	Each	1.00	51.00	Rupees Fifty One Only
1.5.3) 32mm deep junction box	Each	1.00	69.00	Rupees Sixty Nine Only
Supplying and flush mounting teak wooden box without front plank, made of not less than 12 mm thick wood, after due groove cutting, finishing with necessary cement plastering complete.(ELE SR 2021-22 Page-2, Item-1.6)		0.00		Rupees Nil
1.6.1) 12"x12"x3" (330x300x76mm)	Each	5.00	112.00	Rupees One Hundred Twelve Only
1.6.2) 12"x9"x3" (300x228x76mm)	Each	5.00	105.00	Rupees One Hundred Five Only
Supplying and wiring adopting loop system in existing PVC Conduit /casing capping using 2x1.5mm2 (Phase & Neutral) & 1x1.0 mm2 (Earth wire) FRLS multi strand PVC insulated copper wire (confirming to IS-694: and latest amendments) with a 6A flush type SP control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood /PVC		0.00		Rupees Nil
Short point up to 3Mtr from tapping point to out let via switchEach point. 2.1.1	Each	2.00	276.00	Rupees Two Hundred Seventy Six Only
Medium point above 3Mtr up to 6Mtr from tapping point to out let via switch (Each point) 2.1.2	Each	2.00	386.00	Rupees Three Hundred Eighty Six Only

No. of Corrections: NIL

P.N - 7

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Description	Unit	Total Quantity	Rates In Rupees	Rates In Words
...pping and wiring adopting loop system in existing PVC Conduit /casing capping ...g capping using 2x1.5mm2 (Phase & Neutral) & 1x1.0 mm2 (Earth wire) FRLS ...ulti strand PVC insulated copper wire (confirming to IS-694: and ...test amendments) without control switch shall be fixed on the existing plastic ...board/wood box, the other end of the wires shall be terminated with sufficient loose ...Short point up to 3Mtr from tapping point to out let via switch box 2.2.1		0.00		Rupees Nil
...Medium point above 3Mtr up to 6Mtr from tapping point to out let via switch box. 2.2.2	mtr	2.00	251.00	Rupees Two Hundred Fifty One Only
Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293. (ELE SR 2019-20 Page-5, Item-3.6.3)I. 6Amps 3way socket	mtr	2.00	361.00	Rupees Three Hundred Sixty One Only
Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/dimmer/telephone socket etc on existing modular switch plate..(ELE SR 2021-22 Page-5, Item-3.6)I.Using Group "A" materials	Each	5.00	162.00	Rupees One Hundred Sixty Two Only
3.6.1) 6Amps one way.		0.00		Rupees Nil
3.6.10) 32Amps DP switch	Each	2.00	88.00	Rupees Eighty Eight Only
3.6.11) 6/16Amps universal socket	Each	2.00	375.00	Rupees Three Hundred Seventy Five Only
Supplying and fixing 32A security and energy saving DP switch with key tag suitable to operate on 230 V, 50Hz AC supply & completely wired on existing box. (ELE SR 2021-22 Page-6, Item-3.7)	Each	2.00	249.00	Rupees Two Hundred Forty Nine Only
Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments. (ELE SR 2021-22 Page-3, Item-2.3)	Each	2.00	747.00	Rupees Seven Hundred Forty Seven Only
4sqmm. 2.7.1		0.00		Rupees Nil
6 sqmm 2.7.2	Mtr	60.00	59.00	Rupees Fifty Nine Only
10 sqmm 2.7.3	Mtr	60.00	87.00	Rupees Eighty Seven Only
Supplying and fixing of PVC casing and capping on the wall or ceiling using necessary materials like bends, junction box, elbows, screws at an interval of 300 mm .... etc. as required. 25mm (ELE SR 2021-22) Item-1.8.2 Page-02)	Mtr	53.00	157.00	Rupees One Hundred Fifty Seven Only
Supplying PVC/GI flexible conduit pipe .... mm dia fixing on surface over inverted tapered wooden plugs or phill plugs or rawl plugs and clamped using heavy gauge saddles at an interval of 300 mm using NF screws and on either end of the pipe terminated completely 20mm (ELE SR 2021-22 Page-02, Item-1.9.1)	Mtr	10.00	28.00	Rupees Twenty Eight Only
Extra for supplying 4mm thick white plastic plate and covering for junction boxes of size 110mm conduit using necessary machine screws. (ELE SR 2021-22 Page-6, Item 3.10.2)	Mtr	12.00	25.00	Rupees Twenty Five Only
Supplying 50mm wooden plug, tapered from 50x50mm to 25x25mm and fixing by using binding wire before concreting a roof slab. (ELE SR 2021-22 Page-6, Item3.11)	Nos	12.00	12.00	Rupees Twelve Only
Providing and fixing Chorinated Poly Venyl Chloride (CPVC) 20mm pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, including fixing the pipe and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including ...tion of joints complete(concealed work including cutting chases and good the	Nos	20.00	8.00	Rupees Eight Only
	Mtr	25.00	231.00	Rupees Two Hundred Thirty One Only

No. of corrections: NIL

P.N-8

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Description	Unit	Total Quantity	Rates In Rupees	Rates In Words
...h work excavation by manual means for drains,canals, waste weir, draft, ...ch channels, key trenches, foundation of bridges and such similar works in all ...s of soils, as per drawing and technical specifications, including setting out, ...ring, strutting, barricading, caution lights, removal of stumps and other ...ous matter, as stated, surface leveled and sides neatly dressed disposing off ...ding and laying in position plain cement concrete for levelling course for all ...ks in foundation. The granite/trap/basalt crushed graded coarse aggregates and ...e aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding ...50 mm thickness, well compacted using plate vibrators, including all lead & lifts, ...ding and laying in position Reinforced cement concrete for all Sub structures of ...ding, Irrigation works, Sub structure works of bridges, Drain works & other ...ctures from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded ...el works and fine aggregates as per relevant IS Codes machine mixed with ...rse aggregates, laid in layers, well compacted using needle vibrators, providing ...ng, Fitting and Placing TMT Fe 500 & above Reinforcement in Foundation / ...structure / Superstructure complete as per Drawing and Technical ...ifications. Item No.9.3 ,Page No.71, Vol III SR 21-22.ISSUE RATE DATE(7-04-	Tonne	19.25	103724.50	Rupees One Lakh(s) Three Thousand Seven Hundred Twenty Four And Paise Fifty Only
...viding & laying precast drain cover slab of 100 mm thickness in CM 1:3 including ...of all materials, labour, curing, transportation, loading, unloading etc, complete ...per the directions of the Engineer In Charge.(0.90 x 0.60 x 0.10) (Approved Data ...e)	sqm	1132.20	2072.00	Rupees Two Thousand Seventy Two Only
...ch work in surface excavation by mechanical means for lowering & leveling the ...und for all works other than foundation in all kinds of soils & upto depth not ...eeding 300mm as per drawing and technical specifications, including setting out, ...ring, strutting, barricading, caution lights, removal of stumps and other ...eous matter including dressing of excavated surfaces disposing off or levelling ...truction of Granular Sub-Base of required grading as per design mixing in a ...hanical mix plant at OMC, carriage of mixed Material to work site, spreading in ...form layers with motor grader on prepared surface and compacting with ...datory power roller to achieve the desired density, complete as per clause 401. ...ular Sub-Base(Plant Mix Method..Materia Item No.4.1(V) Page No.19 ,Vol III SR ...viding, laying, spreading and compacting graded stone aggregate to wet mix ...cadam specification including premixing the Material with water at OMC in ...hanical mix plant carriage of mixed Material by tipper to site, laying in uniform ...ers with paver/grader in sub-base / base course on well prepared surface and ...pacting with vibratory roller to achieve the desired density..Wet Mix Macadam	Cum	2258.23	161.10	Rupees One Hundred Sixty One And Paise Ten Only
	Cum	1354.94	2581.70	Rupees Two Thousand Five Hundred Eighty One And Paise Seventy Only
	Cum	1580.76	2633.40	Rupees Two Thousand Six Hundred Thirty Three And Paise Forty Only
...viding and applying primer coat with SS1 grade Bitumen Emulsion on prepared ...face of granular base including cleaning of road surface and spraying primer at the ...e of 0.90 kg per m2 using mechanical means. (Page No.29, I.No. 5.1 of Vol-3 SR ...1-22).Issue Rate 07/07/2022	Sqm	9032.90	46.20	Rupees Forty Six And Paise Twenty Only
Bituminous Macadam Grading - II for traffic <20 MSA Providing and laying Bituminous Macadam with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading premixed with bituminous binder VG-30 @ 3.4% by weight of mix, transported to site, laid over a previously prepared surface with ...hanical paver finisher to the required grade, level and alignment and rolled as per	Cum	451.65	8104.80	Rupees Eight Thousand One Hundred Four And Paise Eighty Only
Providing and applying tack coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.20 kg/m2 on the prepared bituminous surface cleaned with mechanical broom(Page No.29, I.No. 5.3 of Vol-3 SR 2021-22).	Sqm	9032.90	13.20	Rupees Thirteen And Paise Twenty Only
Bituminous Concrete Grading II for traffic <20 MSA Providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix plant using crushed aggregates of ...cified grading, premixed with bituminous binder VG-30, @ 5.4 per cent of mix and ...filler, transporting the hot mix to work site, laying with mechanical paver finisher to ...the required grade, level and alignment, rolling with smooth wheeled, vibratory and	Sqm	361.32	11672.10	Rupees Eleven Thousand Six Hundred Seventy Two And Paise Ten Only
Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous SurfaceProviding and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per ...ISI 35-2015.The finished surface to be level, uniform and free from streaks and	Sqm	321.60	525.80	Rupees Five Hundred Twenty Five And Paise Eighty Only
Geophysical investigation at site for sinking borewells for supplying drinking water to the habitation either through the Hand Pump MWS or P.W.S.S, by vertical electrical sounding by adopting Venner or Schlumbergers's method, including reconnaissance survey of geological formation. Geophysical investigation of existing ground water ...in the vicinity, its quality, quantity and acceptability of the users, indicating the	No	22.00	5141.00	Rupees Five Thousand One Hundred Forty One Only
Sinking of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burdern upto 20 m. Fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicle, crew charges and cost of ...consumables etc...complete including yield testing at the final depth with a minimum		0.00		Rupees Nil
0 to 50 m	Rmt	1100.00	347.00	Rupees Three Hundred Forty Seven Only
50 to 100 m	Rmt	1100.00	442.00	Rupees Four Hundred Forty Two Only
100 to 150 m	Rmt	1100.00	456.00	Rupees Four Hundred Fifty Six Only

No. of corrections: NIL

P.N 9

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Description	Unit	Total Quantity	Rates In Rupees	Rates In Words
to 200 m	Rmt	1100.00	536.00	Rupees Five Hundred Thirty Six Only
to 250 m	Rmt	1100.00	634.00	Rupees Six Hundred Thirty Four Only
to 300 m	Rmt	1100.00	700.00	Rupees Seven Hundred Only
to 350 m	Rmt	1100.00	825.00	Rupees Eight Hundred Twenty Five Only
to 400 m	Rmt	1100.00	900.00	Rupees Nine Hundred Only
to 420 m	Rmt	440.00	1129.00	Rupees One Thousand One Hundred Twenty Nine Only
Providing and fixing 250mm dia PVC (casing pipe) (page no.XXXI, SL no.909) (KPWD SR 2016-17)	Rmt	264.00	2600.00	Rupees Two Thousand Six Hundred Only
Supply of ISI mark 175mm nominal bore,plain and steel casing pipe grade of steel Fe 410 of wall thickness conforming to IS 4270-2001 and latest ammendments, electrical resistance welded steel tubes, material and conforming to IS 1387-1993 and manufactured by basic open hearth electric or basic oxygen process in random length of 5.7m both ends threaded conforming to IS 554-1985 one end fixed with	Rmt	1100.00	1933.00	Rupees One Thousand Nine Hundred Thirty Three Only
Providing and fixing MS casing collars as per IS 1239 (part-II) 1982 with all latest amendments if any for any dia. The thickness of plate used for covering one end shall be 3mm (minimum). The dimensions of caps and colars shall be strictly as per IS 1239 (Part-II) 1982 with all amendments	Each	183.33	150.00	Rupees One Hundred Fifty Only
Providing 175mm dia Bore Cap CE (M)	No	22.00	100.00	Rupees One Hundred Only
Atalanta suguna CRI KIRLOSKAR and other equipments pumps 10.00 HP/7.5 KV (20 stage)	No	22.00	49955.00	Rupees Forty Nine Thousand Nine Hundred Fifty Five Only
Providing and fixing in trenches galvinised/mild steel tube 50mm dia nominal bore with all fittings (earth work in trenches to be measured and paid for seperately) including cost of all materials, labour charges,HOM of equipment and testing complete as per specifications. Specification No. KBS 13.2.14/13.6 (page no.92/It no.13.15)KPWD SR 2018-19	Rmt	7590.00	411.28	Rupees Four Hundred Eleven And Paise Twenty Eight Only
Supplying and drawing 3 core flat PVC sheathed submersible pump cable maufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to table 3 class 5 to IS 8130-1984 and virgin grade PVC insulation and power coating extruded PVC sheathed suitable for working voltage upto 1100 volts with specified IS 694-1990 and confirming to the attwached GTP of	Rmt	15400.00	126.70	Rupees One Hundred Twenty Six And Paise Seventy Only
Providing and fixing in position 50mm Nominal bore non-return valve vertical type of approved make including cost of all materials,labour and HOM of equipment with all leads complete as per specifications.(PWD SR 18-19,P-95/It no.13.62)	No	22.00	1345.14	Rupees One Thousand Three Hundred Forty Five And Paise Fourteen Only
Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :	No	22.00	597.30	Rupees Five Hundred Ninety Seven And Paise Thirty Only
Spplying and fixing 50mm GI Elbow.	No	22.00	111.80	Rupees One Hundred Eleven And Paise Eighty Only
Spplying and fixing 50mm GI Nipple	No	22.00	104.30	Rupees One Hundred Four And Paise Thirty Only
Spplying and fixing 50mm GI Hose colleres	No	1276.00	103.00	Rupees One Hundred Three Only

No. of Corrections: NILL

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Description	Unit	Total Quantity	Rates In Rupees	Rates In Words
...ying and fixing 20" x 20" x 2.5" polished wood board made of not less than ...ick plank on both the sides with planks made out of not more than 2 pieces ...ing the same to the wall using tapered inverted wooden plugs screws etc.,	No	22.00	302.00	Rupees Three Hundred Two Only
...ying and fixing miniature circuit breakers on existing MCB distribution board ...necessary fixing materials and 'C' type curve indicator ON/OFF energy cross-3 ...short circuit breaking capacity of 10K and complete wiring as required ...rming to IEC 60898.(PWD Ele SR 2022-23 ,P-13/Sl no.5.17.7) 6-32 A TPN	No	22.00	1777.00	Rupees One Thousand Seven Hundred Seventy Seven Only
...ying of TPST with rewirable porcelain channels in SM encloser made out of 14 ...powder coated point of approved colour 32 amps (PWD Ele SR 2022-23,P-10,lt-5.3)	No	22.00	1944.00	Rupees One Thousand Nine Hundred Forty Four Only
...ying and fixing LED type panel board indicating lamp with required colour ...ble for 220 V AC 50 HZ 12/24 V DC(PWD Ele SR 2022-23 P-14,Sl no.5.38)	No	22.00	464.00	Rupees Four Hundred Sixty Four Only
...ing fully automatic star delta starter unit push button type with suitable wires 2 ...ctors and adjustable thermal timer mounted on a common base plate held in ...enclosure for use on 400/440 volts phase and wired after fixing to the existing ...wooden board for motor. upto 12.5HP(PWD Ele SR 2022-23,p-10,Sl no.-5.2.1)	No	22.00	6912.00	Rupees Six Thousand Nine Hundred Twelve Only
...ying and fixing single phase preventer using necessary wires over an existing ...d board suitable for motar up to 20 HP capacities.(PWD Ele SR 2022-23,p-10/Sl no.5.3)	No	22.00	805.00	Rupees Eight Hundred Five Only
...ing for lighting/power circuit using one of FRLS PVC insulated 1100V grade ...stranad copper conductor single core wire in open or concealed system of wiring ...per IS 694:1990 & conforming to the attached GTP of group A. 4 sqmm (PWD Ele SR 2019-20,p-3,lt-2.3.4(d)	Mtrs	440.00	59.00	Rupees Fifty Nine Only
...plying fixing and wiring heavy duty low voltage capacitors conforming to IS 2834 ...ase 400/440 volts grade, for power factor improvement of rotating ...achinery.(PWD Ele SR 2022-23 ,p-14/Sl no.5.37)	No	88.00	432.00	Rupees Four Hundred Thirty Two Only
...plying, fixing, wiring, earth electrode for grounding conduits, LC cotouts and ...ther equipments on the meter board using 40mm dia 2.90 thick GI pipe 2.5 mtr long ...ried in a pit... The pit should be filled with equal proprotion of salt and charcoal ...50mm alround the pipe to complete depth. The connection from the to the conduit ...to be established through GI wire of size as per ISI specification 7.3.3 of IS 732	No	22.00	2999.70	Rupees Two Thousand Nine Hundred Ninety Nine And Paise Seventy Only
...ging of trench of 0.36mtrs deepx0.5 mtrs wide refilling the trench to the required ...ground level and consolidating etc., complete (PWD Ele SR 2019-20,p-41,lt-6.6.2) ...ard soil	Mtrs	176.00	102.00	Rupees One Hundred Two Only
...plying laying 1.1 KV class LT UG cable having aluminium conductor PVC ...sulated extruded inner shethed galvanised steel strip (excep 2cx 10 sqmm wire ...armoured) confirming to IS-3975:1990 (No. of strip indicated in GTP) and extruded ...PVC outer sheathed armoured cable with specified IS-1554,part-1:1988 and ...confirming to the attached GTP of group A 4 core 16 sq mm PWD Ele SR 2019-20 p-	Mtrs	220.00	150.00	Rupees One Hundred Fifty Only
...bour charge for laying 1.1 KV class UG cable in existing trench GI pipe / stoneware ...pipe/ on wall / on poles as required in existing trench/duct. 6 sq mm to 16 sq ...mm(PWD Ele SR 2019-20,p-41,lt-6.5.1)	No	550.00	11.88	Rupees Eleven And Paise Eighty Eight Only
...plying and fixing class-A(medium duty) GI pipe wall thickness not less then ...3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG ...cable of 1.1KV class 40mm(PWD Ele SR 2019-20,p-41,lt-6.9.1)	Rmt	44.00	335.00	Rupees Three Hundred Thirty Five Only
...plying and fixing LT cast iron pot heads suitable for 1.1KV class UG cable filled ...with necessary bitumen / insulating compound complete with terminals,clamps bolts ...and nuts and washer etc.,complete for 16 sq mm as per specifications.(PWD Ele SR 2019-20,p-42,lt-6.10.2)	No	22.00	270.00	Rupees Two Hundred Seventy Only
...plying and fixing porcelain fuse channel with cut out on the existing wooden ...block and wiring complete 63 amps(PWD Ele SR 2019-20,p-10,lt-5.7.3)	No	66.00	372.00	Rupees Three Hundred Seventy Two Only
...mantling of cement concrete pavement by mechanical means using pneumatic ...tools, breaking to pieces not exceeding 0.02 m3 in volume and stock piling at ...designated locations and disposal of dismantled materials and stacking serviceable ...and unserviceable materials separately	Cum	403.92	464.20	Rupees Four Hundred Sixty Four And Paise Twenty Only
...arth work excavation for pipeline trenches in all kinds of by mechanical means ...above 600 mm trench width as per drawing and technical specifications, including ...setting out, construction of shoring, strutting, barricading, caution lights, bracing, ...using sight rails & bonding rods at every 100 mm whevere necessary as directed, ...removal of clumps and other deleterious matter, dressing of sides and levelling the ...Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS ...15778, having thermal stability for hot and cold water supply including all CPVC plain ...and brass threaded fittings, this includes jointing of pipes and fittings with one step ...CPVC solvent cement and testing of joints complete. (external work) - 50mm nominal ...dia(PWD SP 2018-19, P-99, lt-13.87.6)	Cum Mtr	1077.12 5984.00	376.20 772.20	Rupees Three Hundred Seventy Six And Paise Twenty Only Rupees Seven Hundred Seventy Two And Paise Twenty Only

No. of Corrections: NIL

P.N - (11)

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Description	Unit	Total Quantity	Rates In Rupees	Rates In Words
...ng connection of G.I. distribution branch with G.I. main of following sizes by ...ing and fixing tee, including cutting and threading the pipe etc. complete : 25 to ...mm nominal bore	Each	598.40	518.10	Rupees Five Hundred Eighteen And Paise Ten Only
...oviding and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS ...78 having thermal stability for hot and cold water supply including all CPVC plain ...d brass threaded fittings, this includes jointing of pipes and fittings with one step ...vent cement, trenching, refilling & testing of joints complete. (external work). - ...minal size 15mm (KPWD SR 2018-19, P-138, it.12.85.2)		220.00	236.50	Rupees Two Hundred Thirty Six And Paise Fifty Only
...oviding and fixing to wall, ceiling and floor Medium density polyethylene pipes ...ding and fixing working pressure 25mm outside diameter with special flange, ...kg/sq.cm working pressure 25mm outside diameter with special flange, ...compression type fittings, wall clips, making good the wall, ceiling and floor, ...ding cost of all materials, labour charges, HOM of equipments and testing ...plete as per specifications. Specification No.KRS 12.2.15.1.7.12.0 (KPWD SR 2018-... ...ding available earth around trenches/pipelines, cables in layers not exceeding 20 ...m in depth, compacting each deposited layer by ramming after watering with a lead ...to 50 m , and lift upto 1.5 m. Including cost of all labour complete as per ...pecifications	Mtr	2750.00	136.74	Rupees One Hundred Thirty Six And Paise Seventy Four Only
...ding and unloading of stone boulder/stone aggregates/sand/kanker/ moorum. ...SSR M100-1:Placing tipper at loading point, loading with front end ...ader,dumping, turning for return trip, excluding time for haulage and return trip ...plete as per specification MORTH Chapter 1 (KPWD SR 2018-19,P-136, it.17.1)	Cum	753.98	134.20	Rupees One Hundred Thirty Four And Paise Twenty Only
...oviding and fixing Brass full way valve gate with C.I. wheel of approved quality ...screwed end) 65 mm nominal bore	Cum	727.06	97.96	Rupees Ninety Seven And Paise Ninety Six Only
...oviding and fixing Brass full way valve gate with C.I. wheel of approved quality ...screwed end) 65 mm nominal bore	Each	22.00	1529.00	Rupees One Thousand Five Hundred Twenty Nine Only
...oviding and laying in position plain cement concrete for levelling course for all ...works in foundation. The granite/trap/basalt crushed graded coarse aggregates and ...the aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding ...150 mm thickness, well compacted using plate vibrators, including all lead & lifts, ...cost of all materials of quality, labour, Hoage charges of machineries, curing, and all ...BESCOM deposit Charges and miscellaneous	Each	598.40	358.60	Rupees Three Hundred Fifty Eight And Paise Sixty Only
	Cum	403.92	6518.60	Rupees Six Thousand Five Hundred Eighteen And Paise Sixty Only
	No	22.00	12000.00	Rupees Twelve Thousand Only
Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other ...ceous matter including dressing of excavated surface, disposing off or levelling	Cum	2260.81	161.10	Rupees One Hundred Sixty One And Paise Ten Only
Construction of Granular Sub-Base of required grading as per design mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per clause 401. ...ular Sub-BasePlant Mix Method. Materia Item No.4.1(V) Page No.19, Vol III SR-	Cum	1356.49	2581.70	Rupees Two Thousand Five Hundred Eighty One And Paise Seventy Only
Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and ...pacting with vibratory roller to achieve the desired density. Wet Mix Macadam	Cum	1582.57	2633.40	Rupees Two Thousand Six Hundred Thirty Three And Paise Forty Only
Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means. (Page No.29, I.No. 5.1 of Vol-3 SR 2021-22).Issue Rate 07/07/2022	Sqm	9043.25	46.20	Rupees Forty Six And Paise Twenty Only
Bituminous Macadam Grading - II for traffic <20 MSA Providing and laying Bituminous Macadam with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading premixed with bituminous binder VG-30 @ 3.4% by weight of mix, transported to site, laid over a previously prepared surface with ...chanical paver finisher to the required grade, level and alignment and rolled as per	Cum	452.16	8104.80	Rupees Eight Thousand One Hundred Four And Paise Eighty Only
Providing and applying tack coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.20 kg/m2 on the prepared bituminous surface cleaned with mechanical broom(Page No.29, I.No. 5.3 of Vol-3 SR 2021-22).	Sqm	9043.25	13.20	Rupees Thirteen And Paise Twenty Only
Bituminous Concrete Grading II for traffic <20 MSA Providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 per cent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to ...required grade, level and alignment, rolling with smooth wheeled, vibratory and	Sqm	361.73	11672.10	Rupees Eleven Thousand Six Hundred Seventy Two And Paise Ten Only
Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous SurfaceProviding and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per ...:45-2015.The finished surface to be level, uniform and free from streaks and	Sqm	318.76	525.80	Rupees Five Hundred Twenty Five And Paise Eighty Only

Total No. of pages : 012

Total No. of Corrections : NIL

"PLANS APPROVED"

Executive Engineer
RR NAGARA Division
BBMP

P.N (12)

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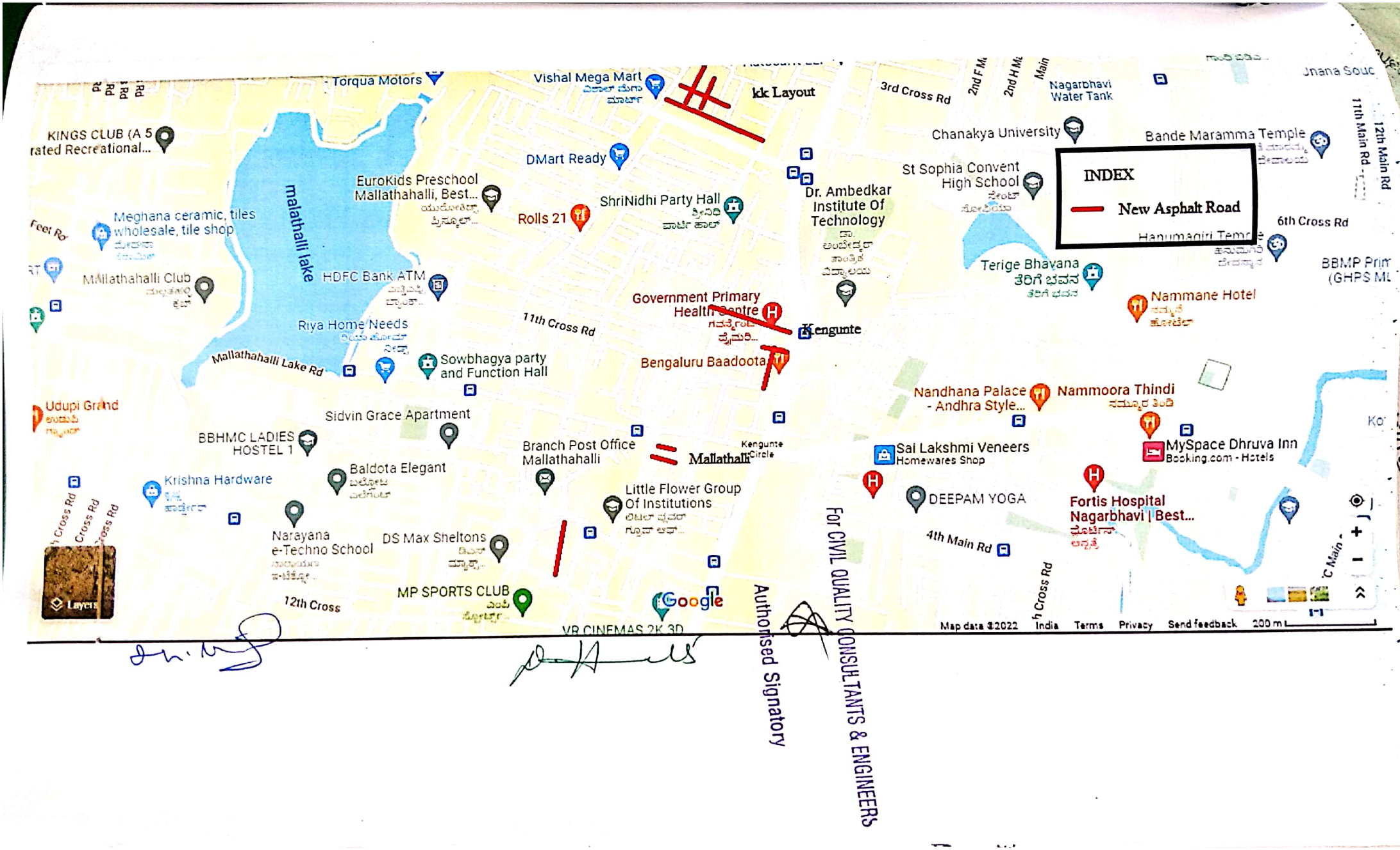

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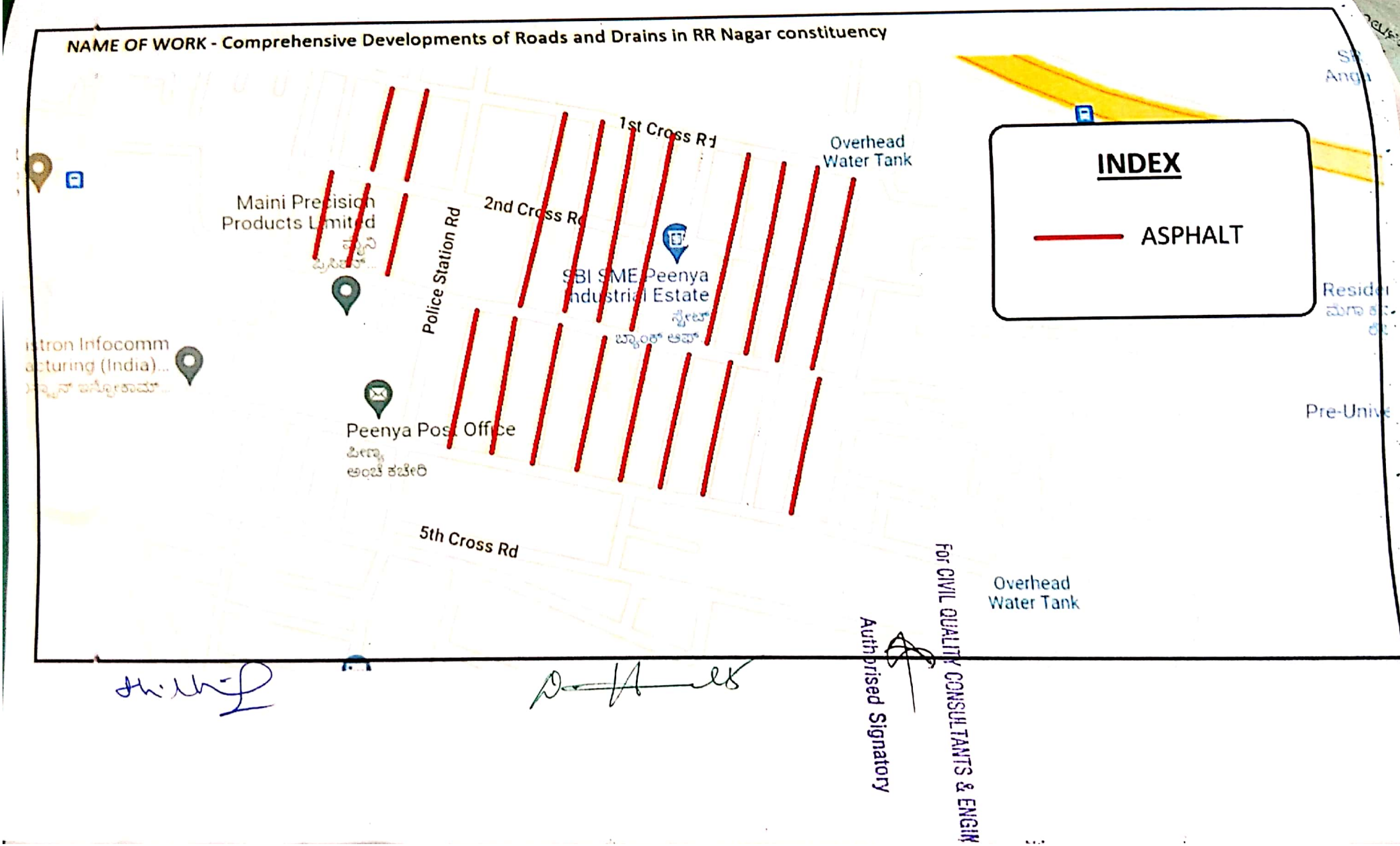

For CIVIL QUALITY CONSULTANTS & ENGIN

Authorised Signatory

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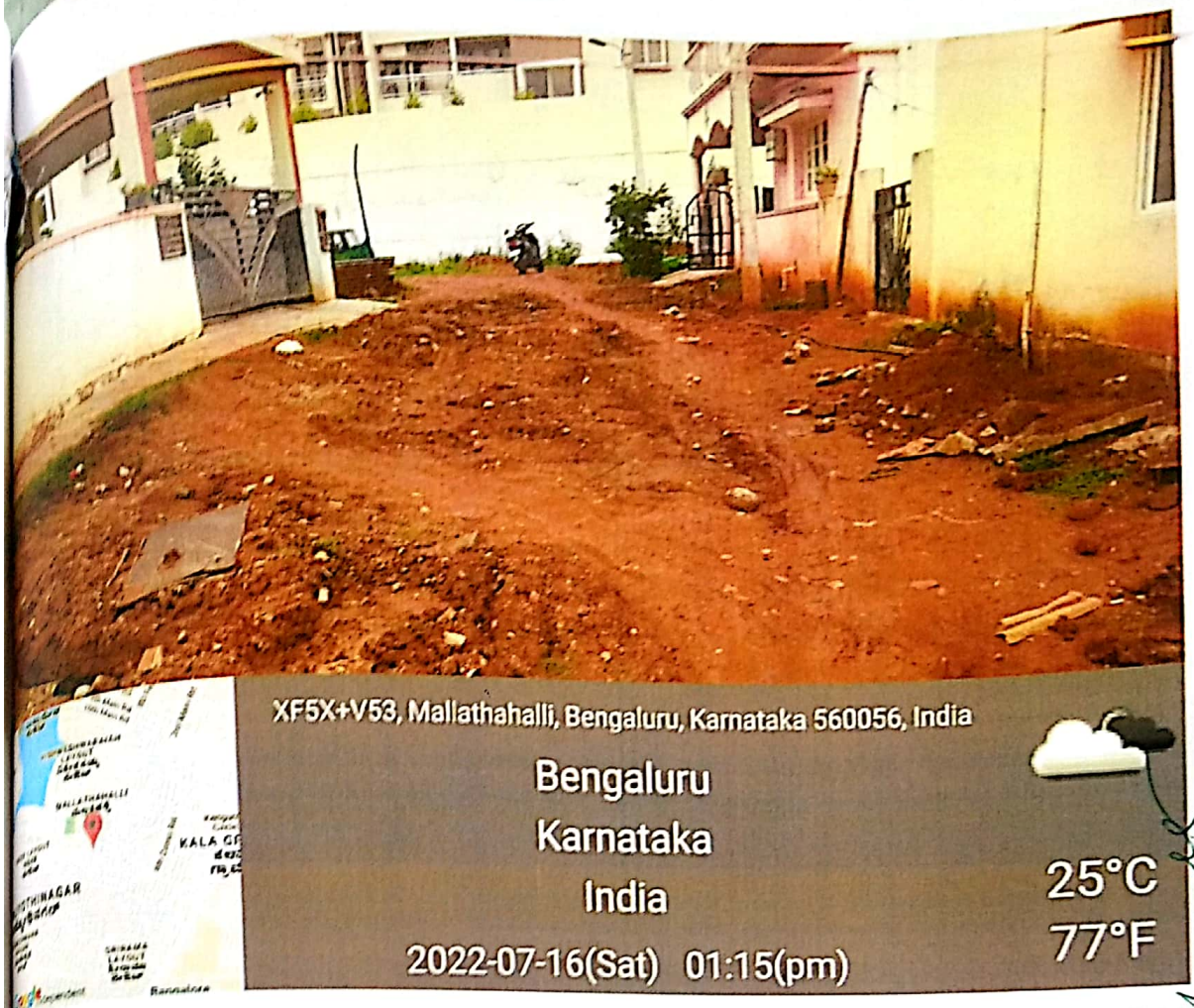

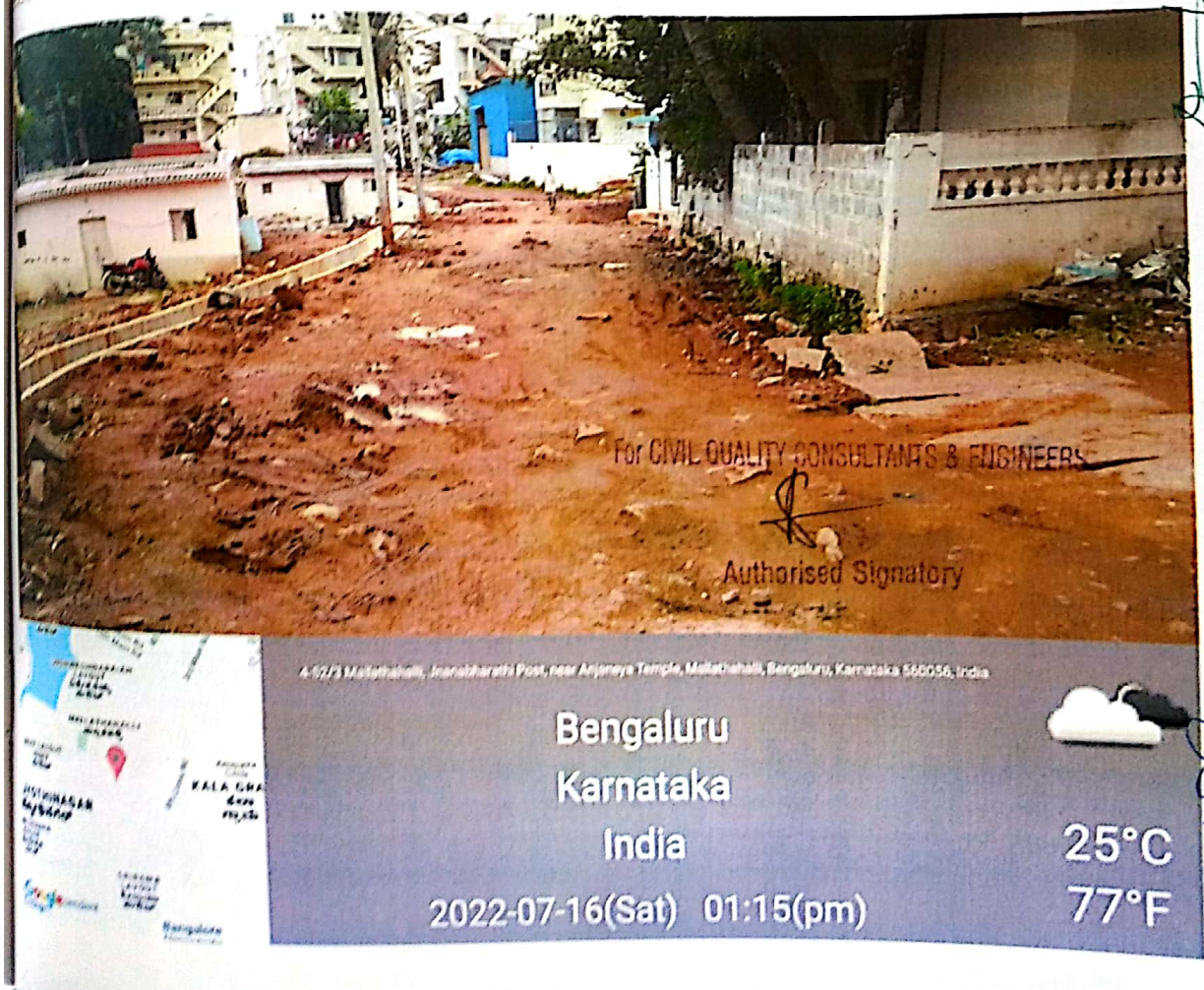

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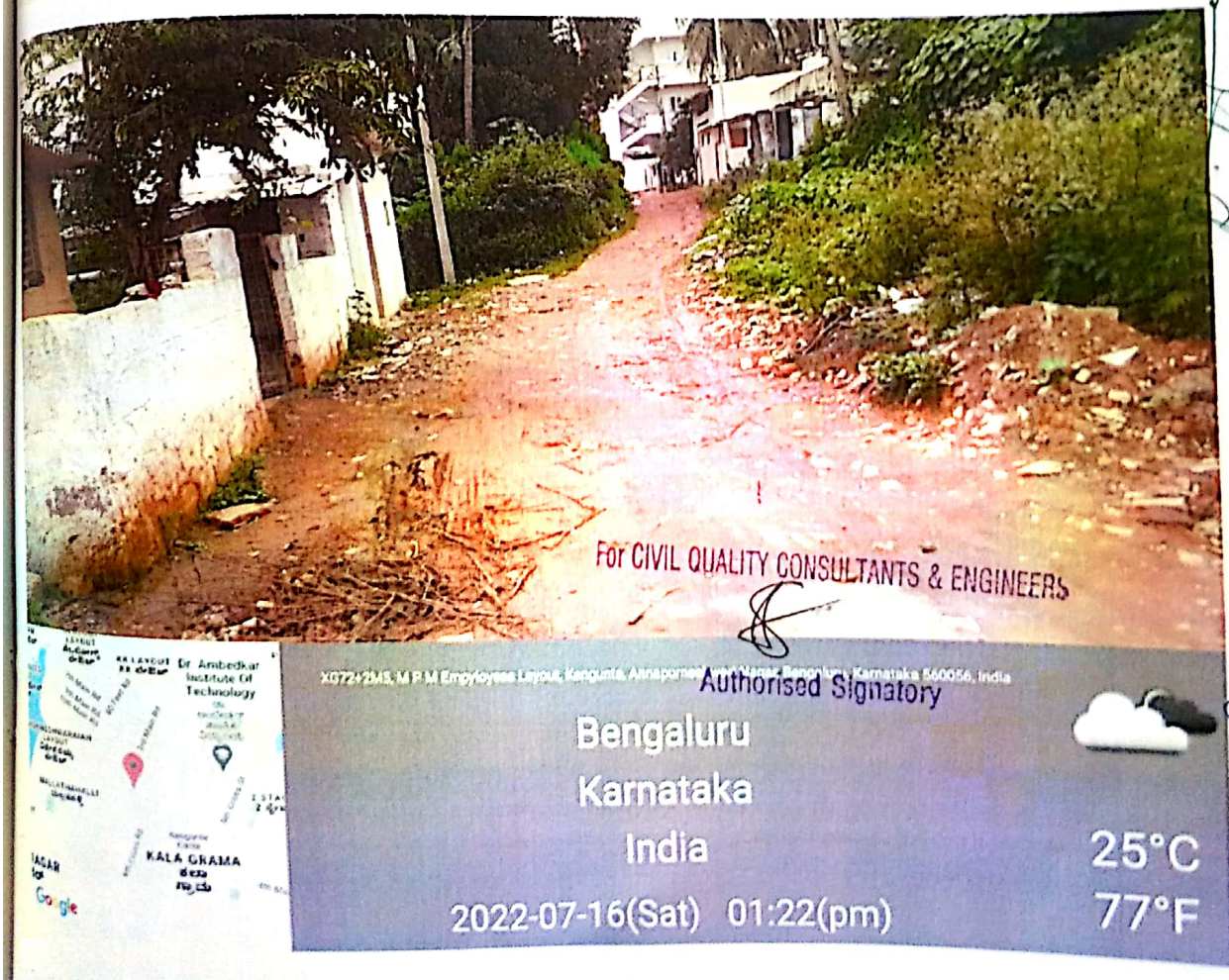

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